WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA222L	4	1700	56J16-S3	138	N				56TB2-H 4	138	N				2	1
AA222R	4	1700	56J16-S4	138	N				56TB2-G 4	138	N				2	1
AA222W	4	1700	56J16-P4	138	N				56TB2-G 5	138	N				1	1
AA223	4	1700	56J16-P2	138	N				56TB2-K 4	138	N				1	2
AA224R	4	1700	56J16-N5	138	N				56TB2-L 1	138	N				3	2
AA224W	4	1700	56J16-P5	138	N				56TB2-K 1	138	N				3	2
AA225R	4	1700	56J16-N6	138	N				56TB2-T 2	138	N				2	2
AA225W	4	1700	56J16-P6	138	N				56TB2-U 3	138	N				2	1
AA226	5	1900		300		275	8			50		25	9			
AA226A			SHLD AA226	20	N				56E 30	20	N		7			
AA226L			56J16-L3	138	N				56J21- 35	10	N		6		1	1
AA226R			56J16-L4	138	N				56J21- 34	10	N		6		2	1
AA227	5	1900		300		275	8			50		25	9			
AA227A			SHLD AA227	20	N				56E 30	20	N					
AA227L			56J16-L3	138	N				56J21- 69	10	N		6		2	1
AA227R			56J16-M4	138	N				56J21- 68	10	N		6		2	1
AA228	4	1500	56J16-R5	138	N				56TB3-L20	138	N				1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 27

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA229	4	1500	56J16-R6	138	N				56TB3-L20	138	N				1	3
AA230L	4	1700	56J16-G2	138	N				56TB2-W 7	138	N				1	1
AA230R	4	1700	56J16-H1	138	N				56TB2-X 7	138	N				1	1
AA230W	4	1700	56J16-G1	138	N				56TB2-W 6	138	N				1	1
AA231L	4	1700	56J16-G4	138	N				56TB2-U 4	138	N				1	1
AA231R	4	1700	56J16-H3	138	N				56TB2-T 5	138	N				1	1
AA231W	4	1700	56J16-G3	138	N				56TB2-U 5	138	N				1	1
AA232	1	1800		300		275	7			300		275	7			
AA232A	4	600	SHLD AA232	20	N				56E 30	20	N					
AA232B	4	600	56E 31	20	N				SHLD AA232	20	N					
AA232L			56J16-L4	138	N				56J12-D1	138	N				1	1
AA232R			56J16-M4	138	N				56J12-D2	138	N				1	1
AA232W			56J16-L3	138	N				56E 31	20	N				3	
AA233R	4	1100	56J16-N5	138	N				56J18-S6	138	N				1	1
AA233W	4	1100	56J16-P5	138	N				56J18-T6	138	N				1	1
AA234	4	900	56J16-N4	138	N				56J17-L6	138	N				2	2
AA235	4	1400	56J17-P6	138	N				56TB3-F 3	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 28

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA236	4	1400	56J17-T4	138	N				56J20-M1	138	N				1	2
AA237	4	1400	56J17-T3	138	N				56J20-M2	138	N				1	2
AA238	4	1400	56J17-T1	138	N				56J20-P3	138	N				2	1
AA239	4	1400	56J17-T2	138	N				56J20-P4	138	N				2	1
AA240	4	900	56J17-T6	138	N				56J18-S1	138	N				1	1
AA241	4	900	56J17-L6	138	N				56J18-R5	138	N				1	1
AA242L	4	900	56J17-K4	138	N				56J18-K1	138	N				1	1
AA242R	4	900	56J17-G4	138	N				56J18-L1	138	N				1	1
AA242W	4	600	56J17-H4	138	N				56E 53	20	N		7		1	
AA243L	4	900	56J17-K6	138	N				56J18-K4	138	N				1	1
AA243R	4	900	56J17-G6	138	N				56J18-L4	138	N				1	1
AA243W	4	600	56J17-H6	138	N				56E 51	20	N		7		1	
AA244	5	1600		250		225	9			50		25	8			
AA244B	4	600	56J22- 41	10	N		6		SHLD AA244	20	N				1	
AA244L			56J17-A4	88	N				56J22- 3	10	N		6		1	1
AA244R			56J17-B4	88	N				56J22- 4	10	N		6		1	1
AA245	5	1600		250		225	9			50		25	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 29

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA245B	4	600	56J22- 5	10	N		6		SHLD AA245	20	N				1	
AA245L			56J17-C4	88	N				56J22- 6	10	N		6		1	1
AA245R			56J17-D4	88	N				56J22- 43	10	N		6		1	1
AA246	5	1600		225		250	9			50		25	8			
AA246B	4	600	56J22- 8	10	N		6		SHLD AA246	20	N				1	
AA246L			56J17-C3	88	N				56J22- 45	10	N		6		1	1
AA246R			56J17-D3	88	N				56J22- 46	10	N		6		1	1
AA247R	3	1400	56J17-D2	88	N				56TB3-R 4	138	N				1	1
AA247W	3	1400	56J17-D3	88	N				56TB3-R 5	138	N				2	1
AA248	4	1400	56J17-S2	138	N				56TB3-T 3	138	N				2	3
AA249	3	1400	56J17-F8	88	N				56TB3-L 2	138	N				1	1
AA250R	4	1400	56J17-P4	138	N				56TB3-C 2	138	N				1	1
AA250W	4	1400	56J17-R4	138	N				56TB3-D 2	138	N				1	1
AA251	3	1400	56J17-D8	88	N				56TB3-M 2	138	N				1	1
AA252	3	1400	56J17-B7	88	N				56TB3-H 3	138	N				1	1
AA253	3	1400	56J17-B8	88	N				56TB3-G 3	138	N				1	1
AA254	3	1400	56J17-C7	88	N				56TB3-G 4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 30

WIRE LIST AA

CONDUCTOR INDIVIDUAL LENGTH			FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET				FROM TERMINATION SPEC. 1		TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TO TERMINATION SPEC 1		W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA255	3	1400	56J17-D6	88	N				56TB3-M 5	138	N				1	1
AA256	3	1400	56J17-D7	88	N				56TB3-M 4	138	N				1	1
AA257	3	1400	56J17-F7	88	N				56TB3-C 1	138	N				1	1
AA258K	4	1400	56J17-N6	138	N				56TB3-G 1	138	N				1	1
AA258L	4	1400	56J17-N5	138	N				56TB3-G 2	138	N				1	1
AA258R	4	1400	56J17-M6	138	N				56TB3-H 1	138	N				1	1
AA258W	4	1400	56J17-M5	138	N				56TB3-H 2	138	N				1	1
AA259	4	1400	56J17-H1	138	N				56TB3-K 2	138	N				1	1
AA260	4	1400	56J17-H2	138	N				56TB3-K 1	138	N				1	1
AA261	4	1400	56J17-G1	138	N				56TB3-K 5	138	N				1	1
AA262	4	1400	56J17-G2	138	N				56TB3-H 5	138	N				1	1
AA263	4	1400	56J17-L1	138	N				56TB3-L 5	138	N				1	1
AA264	4	1400	56J17-M1	138	N				56TB3-D 1	138	N				1	1
AA265	5	1400		300		275	9			300		275	8			
AA265B	4	600	56TB3-S 3	138	N				SHLD AA265	20	N				2	
AA265L			56J17-M4	138	N				56TB3-N 1	138	N				1	1
AA265R			56J17-N4	138	N				56TB3-N 2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR ~~F~~ G | SHEET 31

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR INDIVIDUAL LENGTH			FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET				FROM TERMINATION SPEC. 1		TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TO TERMINATION SPEC 1		W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA266	3	1400	56J17-C5	88	N				56TB3-K 3	138	N				1	1
AA267	3	1400	56J17-B6	88	N				56TB3-L 4	138	N				1	1
AA268	3	1400	56J17-B5	88	N				56TB3-L 3	138	N				1	1
AA269	3	1400	56J17-D5	88	N				56TB3-M 1	138	N				1	1
AA270	5	1400		300		275	9			300		275	8			
AA270B	4	600	56TB3-N 3	138	N				SHLD AA270	20	N				1	
AA270L			56J17-N1	138	N				56TB3-N 4	138	N				1	1
AA270R			56J17-P1	138	N				56TB3-N 5	138	N				1	1
AA271	3	1400	56J17-F6	88	N				56TB3-C 4	138	N				1	1
AA272	3	1400	56J17-F5	88	N				56TB3-D 4	138	N				1	1
AA273	3	1400	56J17-F4	88	N				56TB3-C 5	138	N				1	1
AA274	3	1400	56J17-F3	88	N				56TB3-D 5	138	N				1	1
AA275	4	1400	56J17-P5	138	N				56TB3-D 3	138	N				1	1
AA276	3	1400	56J17-C6	88	N				56TB3-H 4	138	N				1	1
AA277	4	1400	56J17-M2	138	N				56TB3-G 5	138	N				1	1
AA278	4	1400	56J17-M3	138	N				56TB3-F 1	138	N				2	1
AA280	4	1400	56J17-R5	138	N				56TB3-M21	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR ~~F~~ G | SHEET 32

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR INDIVIDUAL LENGTH			FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET				FROM TERMINATION SPEC. 1		TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TO TERMINATION SPEC 1		W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA281L	3	1400	56J17-A8	88	N				56TB3-T 6	138	N				1	1
AA281R	3	1400	56J17-A7	88	N				56TB3-T 5	138	N				1	1
AA281W	3	1400	56J17-A6	88	N				56TB3-T 4	138	N				1	1
AA282	4	1400	56J17-R6	138	N				56TB3-L21	138	N				2	2
AA283	4	600	56J17-R6	138	N				56J17-S6	138	N				1	1
AA284L	3	1400	56J17-F9	88	N				56TB3-S 4	138	N				1	1
AA284R	3	1400	56J17-D9	88	N				56TB3-S 5	138	N				1	1
AA284W	3	1400	56J17-C9	88	N				56TB3-S 6	138	N				1	1
AA285	3	1400	56J17-A9	88	N				56TB3-M 3	138	N				1	1
AA286	3	1400	56J17-B9	88	N				56TB3-K 4	138	N				1	1
AA287	5	1600		250		225	9			50		25	8			
AA287B	4	600	56J22- 2	10	N		6		SHLD AA287	20	N				1	
AA287L			56J17-A3	88	N				56J22- 1	10	N		6		1	1
AA287R			56J17-B3	88	N				56J22- 39	10	N		6		1	1
AA288	5	1600		250		225	9			50		25	8			
AA288B	4	600	56J22- 11	10	N		6		SHLD AA288	20	N				1	
AA288L			56J17-D1	88	N				56J22- 48	10	N		6		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR ~~F~~ G | SHEET 33

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR INDIVIDUAL LENGTH			FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET				FROM TERMINATION SPEC. 1		TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TO TERMINATION SPEC 1		W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA288R			56J17-C1	88	N				56J22- 10	10	N		6		1	1
AA289R	3	1400	56J17-C2	88	N				56TB3-M14	138	N				1	1
AA289W	3	1400	56J17-C1	88	N				56TB3-M13	138	N				2	1
AA290	3	1400	56J17-C8	88	N				56TB3-L 1	138	N				1	1
AA291	4	600	56J17-S1	138	N				56J17-S2	138	N				1	1
AA292	4	1600	56J17-M3	138	N				56J22-206	10	N		6		3	1
AA293	4	1600	56J17-L3	138	N				56J22-243	10	N		6		1	1
AA294	4	600	56J17-T1	138	N				56J17-T2	138	N				1	1
AA295	4	1400	56J17-S3	138	N				56TB3-N 3	138	N				1	2
AA296	4	1400	56J17-S1	138	N				56TB3-S 3	138	N				2	3
AA297	4	1400	56J17-S4	138	N				56TB3-R 3	138	N				1	3
AA298	4	900	56J18-S1	138	N				56J19-T1	138	N				2	2
AA299R	3	900	56J18-F2	88	N				56J19-F4	88	N				1	1
AA299W	3	900	56J18-F1	88	N				56J19-D4	88	N				1	1
AA300R	3	900	56J18-C8	88	N				56J19-B2	88	N				1	1
AA300W	3	900	56J18-B8	88	N				56J19-C1	88	N				1	1
AA301R	3	900	56J18-D9	88	N				56J19-B3	88	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR ~~F~~ G | SHEET 34

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						w-w	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA301W	3	900	56J18-C9	88	N				56J19-A4	88	N				1	1
AA302K	4	900	56J18-G5	138	N				56J19-H6	138	N				1	1
AA302L	4	900	56J18-H5	138	N				56J19-H5	138	N				1	1
AA302R	4	900	56J18-H6	138	N				56J19-G5	138	N				1	1
AA302W	4	900	56J18-G6	138	N				56J19-G6	138	N				1	1
AA303	4	900	56J18-P3	138	N				56J19-R4	138	N				2	2
AA304R	4	900	56J18-S6	138	N				56J19-N6	138	N				2	1
AA304W	4	900	56J18-T6	138	N				56J19-P6	138	N				2	1
AA305	4	900	56J18-S5	138	N				56J19-P5	138	N				2	2
AA306	4	900	56J18-R5	138	N				56J19-P3	138	N				2	2
AA307	5	1400		250		225	11			300		275	7			
AA307B	4	600	56TB3-R 9	138	N				SHLD AA307	20	N				3	
AA307L			56J18-C2	88	N				56TB3-T 8	138	N				1	1
AA307R			56J18-B2	88	N				56TB3-T 7	138	N				1	1
AA308	5	1400		250		225	11			300		275	7			
AA308B	4	600	56TB3-N 9	138	N				SHLD AA308	20	N				3	
AA308L			56J18-A1	88	N				56TB3-S 8	138	N				1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR ~~B~~ G | SHEET 35

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						w-w	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA308R			56J18-B1	88	N				56TB3-S 7	138	N				1	1
AA309	5	1400		250		225	11			300		275	7			
AA309B	4	600	56TB3-T 9	138	N				SHLD AA309	20	N				3	
AA309L			56J18-A2	88	N				56TB3-T10	138	N				1	1
AA309R			56J18-A3	88	N				56TB3-T11	138	N				1	1
AA310	5	1400		250		225	11			300		275	7			
AA310B	4	600	56TB3-S 9	138	N				SHLD AA310	20	N				3	
AA310L			56J18-B3	88	N				56TB3-S10	138	N				1	1
AA310R			56J18-B4	88	N				56TB3-S11	138	N				1	1
AA311R	3	1400	56J18-D3	88	N				56TB3-R 7	138	N				1	1
AA311W	3	1400	56J18-D2	88	N				56TB3-R 8	138	N				1	1
AA312R	3	1400	56J18-C1	88	N				56TB3-R11	138	N				1	1
AA312W	3	1400	56J18-D1	88	N				56TB3-R10	138	N				1	1
AA313R	3	1400	56J18-A5	88	N				56TB3-N 7	138	N				1	1
AA313W	3	1400	56J18-A4	88	N				56TB3-N 8	138	N				1	1
AA314R	3	1400	56J18-C5	88	N				56TB3-N11	138	N				1	1
AA314W	3	1400	56J18-B5	88	N				56TB3-N10	138	N				1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR ~~B~~ G | SHEET 36

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						w-w	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA315	5	1400		250		225	11			300		275	7			
AA315B	4	600	56TB3-M 9	138	N				SHLD AA315	20	N				3	
AA315L			56J18-A9	88	N				56TB3-M 8	138	N				1	1
AA315R			56J18-B9	88	N				56TB3-M 7	138	N				1	1
AA316	5	1400		250		225	11			300		275	7			
AA316B	4	600	56TB3-L 9	138	N				SHLD AA316	20	N				3	
AA316L			56J18-A8	88	N				56TB3-L 7	138	N				1	1
AA316R			56J18-A7	88	N				56TB3-L 8	138	N				1	1
AA317R	3	1400	56J18-B6	88	N				56TB3-L11	138	N				1	1
AA317W	3	1400	56J18-A6	88	N				56TB3-L10	138	N				1	1
AA318R	3	1400	56J18-F4	88	N				56TB3-K12	138	N				1	1
AA318W	3	1400	56J18-F3	88	N				56TB3-L12	138	N				1	1
AA319	4	1400	56J18-P1	138	N				56TB3-D12	138	N				1	1
AA320	4	1400	56J18-R1	138	N				56TB3-C12	138	N				1	1
AA321	4	1400	56J18-R2	138	N				56TB3-C11	138	N				1	1
AA322	4	1400	56J18-P2	138	N				56TB3-D11	138	N				1	1
AA323	4	600	56J18-S3	138	N				56J18-S4	138	N				1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR ~~B~~ G | SHEET 37

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						w-w	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA324	4	600	56J18-T3	138	N				56J18-T4	138	N				1	1
AA325	4	1400	56J18-S3	138	N				56TB3-K20	138	N				2	1
AA326L	3	1400	56J18-F9	88	N				56TB3-M11	138	N				1	1
AA326R	3	1400	56J18-F8	88	N				56TB3-M12	138	N				1	1
AA326W	3	1400	56J18-D8	88	N				56TB3-M10	138	N				1	1
AA327	4	1400	56J18-T3	138	N				56TB3-K20	138	N				2	2
AA328L	4	1400	56J18-L6	138	N				56TB3-R12	138	N				1	1
AA328R	4	1400	56J18-L5	138	N				56TB3-S12	138	N				1	1
AA328W	4	1400	56J18-K6	138	N				56TB3-T12	138	N				1	1
AA329	5	1500		250		225	11			300		275	7			
AA329B	4	600	56TB3-H 9	138	N				SHLD AA329	20	N				3	
AA329L			56J19-C2	88	N				56TB3-H 8	138	N				1	1
AA329R			56J19-B2	88	N				56TB3-H 7	138	N				2	1
AA330R	3	1400	56J18-F2	88	N				56TB3-F10	138	N				2	1
AA330W	3	1400	56J18-F1	88	N				56TB3-G10	138	N				2	1
AA331	5	1500		250		225	11			300		275	7			
AA331B	4	600	56TB3-K 9	138	N				SHLD AA331	20	N				3	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR ~~B~~ G | SHEET 38

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	TO
AA592	4	2200	56TB2-M 6	138	N				56TB3-T 3	138	N				3	1
AA596	4	600	56TB2-V 3	138	N				56TB2-V 4	138	N				2	2
AA597	4	600	56TB2-V 4	138	N				56TB2-V 5	138	N				1	1
AA598	4	600	56TB2-V 5	138	N				56TB2-V 6	138	N				2	2
AA599	4	600	56TB2-V 6	138	N				56TB2-V 8	138	N				1	1
AA600	4	600	56TB1-S 8	138	N				56TB1-S 7	138	N				2	2
AA601	4	600	56TB1-S 7	138	N				56TB1-S 6	138	N				1	1
AA602	4	1000	56TB1-S 7	138	N				56TB2-D 8	138	N				3	2
AA603	4	600	56TB2-D 7	138	N				56TB2-D 6	138	N				1	1
AA604	4	600	56TB2-D 6	138	N				56TB2-D 5	138	N				2	2
AA605	4	600	56TB2-D 5	138	N				56TB2-D 4	138	N				1	1
AA607	4	600	56TB3-F22	138	N				56TB3-F21	138	N				1	1
AA608	4	1800	56TB2-D 4	138	N				56E 27	20	N				3	
AA609	4	600	56TB3-C15	138	N				56TB3-D15	138	N				2	2
AA610	4	900	56J11-N3	138	N				56J12-P4	138	N				1	1
AA611	4	600	56TB1-R 1	138	N				56TB1-S 1	138	N				1	1
AA612	4	600	56TB1-S 1	138	N				56TB1-T 1	138	N				2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR G | SHEET 63

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	TO
AA613	4	600	56TB3-B20	138	N				56TB3-B21	138	N				1	1
AA614	4	600	56TB3-B21	138	N				56TB3-F21	138	N				2	2
AA615	4	600	56TB2-R 3	138	N				56TB2-S 3	138	N				1	1
AA616	4	900	56J18-R4	138	N				56J19-M4	138	N				1	1
AA617	4	900	56J11-L4	138	N				56E 66	20	N		12		2	
AA618	4	900	56J11-L4	138	N				56E 67	20	N		12		3	
AA619	4	400	56TB3-B20	138	N				56E 68	20	N		12		2	
AA620	4	600	56TB3-B20	138	N				56E 69	20	N		12		3	
AA621	4	600	56TB2-T 2	138	N				56TB2-T 3	138	N				1	1
AA622	4	1700	56J20-R1	138	N				56TB3-C20	138	N				2	2
AA623	4	1700	56J20-P1	138	N				56TB3-C21	138	N				2	2
AA624	4	1700	56J20-R2	138	N				56TB3-D20	138	N				2	2
AA625	4	1700	56J20-P2	138	N				56TB3-D21	138	N				2	2
AA626	4	1700	56J20-S3	138	N				56TB3-D22	138	N				2	2
AA627	4	1700	56J20-S4	138	N				56TB3-C22	138	N				2	2
AA628	4	1700	56J20-R5	138	N				56TB3-H21	138	N				3	3
AA629	4	1700	56J20-R6	138	N				56TB3-H22	138	N				3	3

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR G | SHEET 64

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	TO
AA630	4	600	56TB3-D15	138	N				56TB3-G15	138	N				1	1
AA631	4	600	56TB3-R 3	138	N				56TB3-S 3	138	N				2	1
AA632	4	600	56TB1-S 3	138	N				56TB1-S 4	138	N				1	2
AA633	4	600	56TB1-S 4	138	N				56TB1-S 5	138	N				3	2
AA634	4	600	56TB1-S 5	138	N				56TB1-S 6	138	N				3	3
AA635	4	600	56TB3-T 3	138	N				56TB2-V 8	138	N				2	3
AA636	4	1200	56J17-F2	138	N				56TB3-D 6	138	N					
AA637	4	1200	56J15-R2	138	N				56TB2-F 4	138	N					
AA638	4	600	56J18-T5	138	N				56E 71	20	N					
AA639	5	2700		300		275	9			300		275	8			
AA639B	4	600	56E 70	20	N				SHLD AA639	20	N					
AA639L			56J12-D6	138	N				56J21- 28	10	N		6			
AA639R			56J12-F6	138	N				56J21- 29	10	N		6			
AA640	5	2700		300		275	9			300		275	8			
AA640B	4	600	56E 70	20	N				SHLD AA640	20	N					
AA640L			56J12-D5	138	N				56J21-158	10	N		6			
AA640R			56J12-F5	138	N				56J21-159	10	N		6			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR G | SHEET 65

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	TO
AA641	5	2700		300		275	9			300		275	8			
AA641B	4	600	56E 70	20	N				SHLD AA641	20	N					
AA641L			56J12-D4	138	N				56J21- 60	10	N		6			
AA641R			56J12-F4	138	N				56J21- 61	10	N		6			
AA642	4	600	56J21- 22	10	N		6		56E70	20	N					
AA643	4	400	56J12-N6	138	N				56J12-R6	138	N					
AA644	4	400	56J12-P5	138	N				56J12-R3	138	N					
AA645	4	600	56TB2-U1	138	N				56TB2-U3	138	N					
AA646	4	1700	56J18-T1	138	N				56TB3-A10	138	N					
AA647	4	1700	56J22-172	10	N		6		56TB3-F2	138	N					

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR G | SHEET 66

MIL 2075 3-63 WIR-RO1

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
		H2	H1 REPLACES REVISION G WITH CHANGE H2 CHANGED PER TDRR 12528	9/9/64	WH.

(H1) REPLACES REVISION G WITH CHANGE

SEE SHEET 2 FOR REVISION RECORD

REV			
SHEET			
REV STATUS OF SHEETS	REV		
	SHEET		

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN R. SHARP DATE 2-17-64
CHECKED E. PETERSON
APPROVAL 7/8/64
APPROVAL

NASA APPROVAL 9-9-64
MIT APPROVAL 9 Sep 64

CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST AA
AGE HARNESS AND PSA END
CONNECTOR ASSY

CODE IDENT NO. SIZE A 1014608 REV H

SCALE SHEET 1 OF 63

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
1	H	37	H												
2	H	38	H												
3	H	39	H												
4	H	40	H												
5	H	41	H												
6	H	42	H												
7	H	43	H												
8	H	44	H												
9	H	45	H												
10	H	46	H												
11	H	47	H												
12	H	48	H												
13	H	49	H												
14	H	50	H												
15	H	51	H												
16	H	52	H												
17	H	53	H												
18	H	54	H												
19	H	55	H												
20	H	56	H												
21	H	57	H												
22	H	58	H												
23	H	59	H												
24	H	60	H												
25	H	61	H												
26	H	62	H												
27	H	63	H												
28	H														
29	H														
30	H														
31	H														
32	H														
33	H														
34	H														
35	H														
36	H														

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION H

NASA DRAWING NO. 1014608
SHEET 2 OF 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

GENERAL NOTES

1 SEE CONDUCTOR CHART, PENNANT NOTE 1.

2 SEE CONDUCTOR CHART, PENNANT NOTE 2.

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

5 LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.

6 CONDUCTORS WITH THE SAME NUMBER ARE TWISTED TOGETHER.

7 LENGTHS SPECIFIED FOR TWISTED CONDUCTORS ARE FOR AFTER TWISTING.

8 TWISTED CONDUCTORS ARE TO BE TWISTED PER ND1002032.

9 CONDUCTOR LENGTHS ARE FOR MANUFACTURING REF. ONLY.

11 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR TWISTING
- A - FROM END SHIELD
- B - TO END SHIELD
- K - BLACK
- L - BLUE
- R - RED
- W - WHITE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR H
SHEET 3

MIL 2084-4-64

WIRE LIST AA

GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR H
SHEET 4

MIL 2084-4-64

WIRE LIST AA

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014608- 1	WIRE PER 1010707-2 SOLID 30AWG (THREE COND TWISTED AND SHIELDED) 13 FT 3.0 IN. TOTAL LENGTH
	3	1	1014608- 3	WIRE PER 1010708-4 SOLID 30AWG (SINGLE COND) 186 FT 2.0 IN. TOTAL LENGTH
	4	1	1014608- 4	WIRE PER 1010708-5 SOLID 24AWG (SINGLE COND) 612 FT 6.0 IN. TOTAL LENGTH
	5	1	1014608- 5	WIRE PER 1010708-3 SOLID 24AWG (TWO COND TWISTED AND SHIELDED) 103 FT 9.0 IN. TOTAL LENGTH
11	6	146	1010738- 2	CONTACT, SOCKET
11	7	27	1010763- 1	SLEEVE, SOLDER
11	8	78	1010763- 2	SLEEVE, SOLDER
11	9	64	1010490-110	INSULATION-SLEEVING, ELEC
11	10	9	1010490-112	INSULATION-SLEEVING, ELEC
	12	4	MS-25036-44	TERMINAL LUG

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR H
SHEET 5

MIL 2084-4-64

WIRE LIST AA

CONDUCTOR			FROM						TO					
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION		CUT WIRE OR SHIELD				TERMINATION	
	ITEM		STRIP WIRE OR JACKET				SPEC. 1	NO.	STRIP WIRE OR JACKET				SPEC 1	NO.
NUMBER	NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.		CIRCUIT POINT	2	TIN	2	ITEM NO.	
AA 1	4	1600	56J11-S4	138	N				56J15-S6	138	N			
AA 2	4	2800	56J11-S1	138	N				56J20-L1	138	N			
AA 3	4	2800	56J11-S2	138	N				56J20-L2	138	N			
AA 4	4	2800	56J11-S5	138	N				56J20-K2	138	N			
AA 5R	4	900	56J11-N4	138	N				56J12-P3	138	N			
AA 5W	4	900	56J11-N5	138	N				56J12-N3	138	N			
AA 6	4	900	56J11-S4	138	N				56J12-S5	138	N			
AA 7	4	900	56J11-L4	138	N				56J12-K3	138	N			
AA 9R	4	900	56J11-L2	138	N				56J12-K2	138	N			
AA 9W	4	900	56J11-L1	138	N				56J12-H2	138	N			
AA 10K	4	900	56J11-B5	138	N				56J12-B2	138	N			
AA 10L	4	900	56J11-A6	138	N				56J12-B1	138	N			
AA 10R	4	900	56J11-A5	138	N				56J12-A2	138	N			
AA 10W	4	900	56J11-B6	138	N				56J12-A1	138	N			
AA 11R	5	2000	56J11-B3	163	N				56J17-B1	88	N			
AA 11W	5	2000	56J11-C3	163	N				56J17-A1	88	N			
AA 12L	4	2000	56J11-N2	138	N				56J17-R2	138	N			
AA 12R	4	2000	56J11-N1	138	N				56J17-P2	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 6

MIL 2088-4-64 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA 12W	4	2000	56J11-P1	138	N			56J17-N2	138	N		
AA 13	4	2000	56J11-S3	138	N			56J17-R1	138	N		
AA 14	4	1100	56J11-N6	138	N			56J13-P6	138	N		
AA 15R	4	1700	56J11-B1	138	N			56TB2-G 2	138	N		
AA 15W	4	1700	56J11-A1	138	N			56TB2-H 2	138	N		
AA 16R	4	1400	56J11-C1	138	N			56TB1-C 5	138	N		
AA 16W	4	1400	56J11-B1	138	N			56TB1-B 5	138	N		
AA 17	4	600	56J11-R4	138	N			56J11-R5	138	N		
AA 18	4	600	56J11-P4	138	N			56J11-R4	138	N		
AA 19R	4	1700	56J11-B2	138	N			56TB2-G 7	138	N		
AA 19W	4	1700	56J11-A2	138	N			56TB2-H 7	138	N		
AA 20R	4	1400	56J11-C2	138	N			56TB1-A 5	138	N		
AA 20W	4	1400	56J11-B2	138	N			56TB1-A 6	138	N		
AA 21R	4	1700	56J11-B3	138	N			56TB2-R 2	138	N		
AA 21W	4	1700	56J11-A3	138	N			56TB2-N 2	138	N		
AA 22	4	600	56J11-P4	138	N			56J11-P5	138	N		
AA 23K	4	1400	56J11-G1	138	N			56TB1-C 3	138	N		
AA 23L	4	1400	56J11-H1	138	N			56TB1-B 4	138	N		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
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HOUSTON, TEXAS

SIZE A | 1014608

SCALE - NONE | REV LTR H | SHEET 7

MIL 2088-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA 23R	4	1400	56J11-F1	138	N			56TB1-C 4	138	N		
AA 23W	4	1400	56J11-G2	138	N			56TB1-B 3	138	N		
AA 24	4	600	56J11-G2	138	N			56J11-P6	138	N		
AA 25	4	600	56J11-S4	138	N			56J11-S5	138	N		
AA 26	4	600	56J11-P6	138	N			56J11-R6	138	N		
AA 27	4	1400	56J11-N6	138	N			56TB1-D 5	138	N		
AA 28K	4	1400	56J11-L2	138	N			56TB1-C 2	138	N		
AA 28L	4	1400	56J11-M2	138	N			56TB1-C 2	138	N		
AA 28R	4	1400	56J11-M1	138	N			56TB1-D 2	138	N		
AA 28W	4	1400	56J11-L1	138	N			56TB1-D 2	138	N		
AA 29K	4	1400	56J11-B5	138	N			56TB1-B 7	138	N		
AA 29L	4	1400	56J11-A6	138	N			56TB1-A 8	138	N		
AA 29R	4	1400	56J11-A5	138	N			56TB1-A 7	138	N		
AA 29W	4	1400	56J11-B6	138	N			56TB1-B 8	138	N		
AA 30R	4	1400	56J11-D6	138	N			56TB1-D 3	138	N		
AA 30W	4	1400	56J11-D5	138	N			56TB1-D 4	138	N		
AA 31	4	600	56J11-R5	138	N			56J11-R6	138	N		
AA 32R	4	1400	56J11-F6	138	N			56TB1-A 4	138	N		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A | 1014608

SCALE - NONE | REV LTR H | SHEET 8

MIL 2088-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA 32W	4	1400	56J11-G6	138	N			56TB1-A 3	138	N		
AA 33	4	600	56J11-R6	138	N			56J11-S6	138	N		
AA 34R	4	1400	56J11-H6	138	N			56TB1-A 2	138	N		
AA 34W	4	1400	56J11-H5	138	N			56TB1-B 2	138	N		
AA 35	4	1400	56J11-L3	138	N			56TB1-D 6	138	N		
AA 36	4	600	56J11-M5	138	N			56E 28	20	N	8	
AA 37	4	600	56J11-M5	138	N			56J11-P3	138	N		
AA 38	4	600	56J11-P2	138	N			56J11-R3	138	N		
AA 39	4	600	56J11-P3	138	N			56J11-R3	138	N		
AA 40	4	600	56J11-S1	138	N			56J11-S2	138	N		
AA 41	4	600	56J11-R1	138	N			56J11-R2	138	N		
AA 42R	4	1400	56J11-G3	138	N			56TB1-B 6	138	N		
AA 42W	4	1400	56J11-F3	138	N			56TB1-C 6	138	N		
AA 43	4	1700	56J11-R3	138	N			56TB2-M 1	138	N		
AA 44	4	1700	56J11-R1	138	N			56TB2-M 2	138	N		
AA 45	4	1700	56J11-R2	138	N			56TB2-M 3	138	N		
AA 46	4	1400	56J11-P6	138	N			56TB1-S 3	138	N		
AA 47	4	1100	56J12-B6	138	N			56J14-H6	138	N		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A | 1014608

SCALE - NONE | REV LTR H | SHEET 9

MIL 2088-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA 48R	4	1400	56J12-K2	138	N			56J15-R4	138	N		
AA 48W	4	1400	56J12-H2	138	N			56J15-S4	138	N		
AA 49R	4	1400	56J12-P3	138	N			56J15-P5	138	N		
AA 49W	4	1400	56J12-N3	138	N			56J15-P6	138	N		
AA 50R	4	1400	56J12-P5	138	N			56J15-N5	138	N		
AA 50W	4	1400	56J12-N5	138	N			56J15-N6	138	N		
AA 51	4	2600	56J12-S6	138	N			56J20-N5	138	N		
AA 52R	4	2600	56J12-K4	138	N			56J20-G6	138	N		
AA 52W	4	2600	56J12-H4	138	N			56J20-G5	138	N		
AA 53	4	2600	56J12-G4	138	N			56J20-L6	138	N		
AA 54	4	2600	56J12-S1	138	N			56J20-M1	138	N		
AA 55	4	2600	56J12-S2	138	N			56J20-M2	138	N		
AA 56	4	1600	56J12-H5	138	N			56J16-M2	138	N		
AA 57	4	1600	56J12-H6	138	N			56J16-M3	138	N		
AA 58	4	1600	56J12-G6	138	N			56J16-N3	138	N		
AA 59	4	1600	56J12-G5	138	N			56J16-R2	138	N		
AA 60L	4	1100	56J12-P1	138	N			56TB1-H 3	138	N		
AA 60R	4	1100	56J12-R1	138	N			56TB1-H 2	138	N		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A | 1014608

SCALE - NONE | REV LTR H | SHEET 10

MIL 2088-4-64 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA 60W	4	1100	56J12-P2	138	N				56TB1-G 2	138	N			
AA 61	4	600	56J12-N1	138	N				56J12-P1	138	N			
AA 62	4	600	56J12-H4	138	N				56J12-N2	138	N			
AA 63R	4	1100	56J12-N6	138	N				56TB1-G 7	138	N			
AA 63W	4	1100	56J12-P6	138	N				56TB1-H 7	138	N			
AA 64R	4	1100	56J12-P5	138	N				56TB1-G 4	138	N			
AA 64W	4	1100	56J12-N4	138	N				56TB1-H 4	138	N			
AA 65	4	600	56J12-N4	138	N				56J12-N5	138	N			
AA 66	4	2400	56J12-R6	138	N				56TB3-L20	138	N			
AA 67	4	600	56J12-F1	138	N				56E 31	20	N		7	
AA 68	4	600	56J12-F1	138	N				56J12-F2	138	N			
AA 69	4	600	56J12-F2	138	N				56E 29	20	N		8	
AA 70	5	2800		300		275	8			100		75	9	
AA 70A	4	600	SHLD AA 70	20	N				56J12-H1	138	N			
AA 70L			56J12-K1	138	N				56J21- 70	10	N		6	
AA 70R			56J12-H1	138	N				56J21- 71	10	N		6	
AA 71	4	600	56J12-G5	138	N				56J12-R5	138	N			
AA 72	4	900	56J12-K3	138	N				56J13-C6	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE - NONE	REV LTR	H	SHEET 11

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA 73L	4	1100	56J12-K6	138	N				56J14-R2	138	N			
AA 73R	4	1100	56J12-L6	138	N				56J14-S2	138	N			
AA 73W	4	1100	56J12-M6	138	N				56J14-S3	138	N			
AA 74	4	2700	56J12-G3	138	N				56J22-244	10	N		6	
AA 75	4	900	56J12-A5	138	N				56J13-D2	138	N			
AA 76	4	900	56J12-A6	138	N				56J13-F2	138	N			
AA 77	4	600	56J12-B5	138	N				56E 34	20	N		7	
AA 78	4	1100	56J12-M3	138	N				56TB1-H 5	138	N			
AA 79	4	1100	56J12-M4	138	N				56TB1-G 5	138	N			
AA 80	4	1100	56J12-M1	138	N				56TB1-H 6	138	N			
AA 81	4	2700	56J12-M1	138	N				56J21- 36	10	N		6	
AA 82	4	2400	56J12-L1	138	N				56TB3-M22	138	N			
AA 83	4	1100	56J12-L2	138	N				56TB1-H 8	138	N			
AA 87	4	600	56J12-S1	138	N				56J12-S3	138	N			
AA 88	4	600	56J12-S2	138	N				56J12-S4	138	N			
AA 89	4	600	56J12-R2	138	N				56J12-R3	138	N			
AA 90	4	600	56J12-R3	138	N				56J12-R4	138	N			
AA 91	4	600	56J12-R4	138	N				56E 31	20	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE - NONE	REV LTR	H	SHEET 12

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA 92	5	1800		300		275	9			300		275	8	
AA 92B	4	600	56E 27	20	N		7		SHLD AA 92	20	N			
AA 92L			56J12-P4	138	N				56J17-R3	138	N			
AA 92R			56J12-P4	138	N				56J17-R3	138	N			
AA 94R	4	1800	56J12-N6	138	N				56J17-N3	138	N			
AA 94W	4	1800	56J12-P6	138	N				56J17-P3	138	N			
AA 95R	4	900	56J12-L5	138	N				56J13-R3	138	N			
AA 95W	4	900	56J12-M5	138	N				56J13-S3	138	N			
AA 96	4	900	56J12-R5	138	N				56J13-R6	138	N			
AA 97	4	1800	56J12-F3	138	N				56J17-M3	138	N			
AA 98	4	1100	56J12-R5	138	N				56TB1-S 6	138	N			
AA 99	4	1100	56J12-R2	138	N				56TB1-N 5	138	N			
AA100	4	1100	56J12-R4	138	N				56TB1-N 8	138	N			
AA101	4	900	56J13-N5	138	N				56J14-H3	138	N			
AA102	4	900	56J13-N6	138	N				56J14-K3	138	N			
AA103	4	900	56J13-H6	138	N				56J14-G1	138	N			
AA104	4	900	56J13-A6	138	N				56J14-A6	138	N			
AA105R	4	900	56J13-L6	138	N				56J14-K1	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE - NONE	REV LTR	H	SHEET 13

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA105W	4	900	56J13-K6	138	N				56J14-H1	138	N			
AA106	4	900	56J13-C6	138	N				56J14-H5	138	N			
AA107	4	900	56J13-S6	138	N				56J14-S6	138	N			
AA108	4	900	56J13-R6	138	N				56J14-R6	138	N			
AA109R	4	900	56J13-R2	138	N				56J14-R1	138	N			
AA109W	4	900	56J13-S2	138	N				56J14-S1	138	N			
AA110R	4	900	56J13-R3	138	N				56J14-R5	138	N			
AA110W	4	900	56J13-S3	138	N				56J14-S5	138	N			
AA111R	4	900	56J13-R4	138	N				56J14-R4	138	N			
AA111W	4	900	56J13-S4	138	N				56J14-S4	138	N			
AA112R	4	900	56J13-R1	138	N				56J14-R2	138	N			
AA112W	4	900	56J13-S1	138	N				56J14-S2	138	N			
AA113	4	900	56J13-P6	138	N				56J14-P6	138	N			
AA114	4	1100	56J13-D1	138	N				56J15-L4	138	N			
AA115	4	1100	56J13-F1	138	N				56J15-M4	138	N			
AA116	4	1100	56J13-D3	138	N				56J15-L3	138	N			
AA117	4	1100	56J13-F3	138	N				56J15-M3	138	N			
AA118R	4	1400	56J13-B1	138	N				56TB1-M 6	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE - NONE	REV LTR	H	SHEET 14

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA118W	4	1400	56J13-A1	138	N				56TB1-M 7	138	N			
AA119	1	1400		300		275	10			300		275	7	
AA119B	4	600	56TB1-N 5	138	N				SHLD AA119	20	N			
AA119L			56J13-L1	163	N				56TB1-L 5	163	N			
AA119R			56J13-H1	163	N				56TB1-M 5	163	N			
AA119W			56J13-K1	163	N				56TB1-L 6	163	N			
AA120	4	1400	56J13-D2	138	N				56TB1-L 2	138	N			
AA121R	4	1400	56J13-B3	138	N				56TB1-N 2	138	N			
AA121W	4	1400	56J13-A3	138	N				56TB1-M 3	138	N			
AA122	1	1400		300		275	10			300		275	7	
AA122B	4	600	56TB1-N 4	138	N				SHLD AA122	20	N			
AA122L			56J13-N3	163	N				56TB1-M 4	163	N			
AA122R			56J13-L3	163	N				56TB1-L 4	163	N			
AA122W			56J13-M3	163	N				56TB1-L 3	163	N			
AA123	4	1400	56J13-F2	138	N				56TB1-M 2	138	N			
AA124	1	1400		300		275	10			300		275	7	
AA124B	4	600	56TB1-N 8	138	N				SHLD AA124	20	N			
AA124L			56J13-G6	163	N				56TB1-L 7	163	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 15

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA124R			56J13-D6	163	N				56TB1-M 8	163	N			
AA124W			56J13-F6	163	N				56TB1-L 8	163	N			
AA125	4	600	56J13-R6	138	N				56E 34	20	N			
AA126R	4	1600	56J14-A2	138	N				56TB1-T 4	138	N			
AA126W	4	1600	56J14-A1	138	N				56TB1-T 5	138	N			
AA127	1	1600		300		275	10			300		275	7	
AA127B	4	600	56TB1-S 4	138	N				SHLD AA127	20	N			
AA127L			56J14-P2	163	N				56TB1-U 3	163	N			
AA127R			56J14-P1	163	N				56TB1-U 4	163	N			
AA127W			56J14-P3	163	N				56TB1-T 3	163	N			
AA128	4	1600	56J14-H6	138	N				56TB1-T 7	138	N			
AA129R	4	2300	56J14-D1	138	N				56J21- 67	10	N		6	
AA129W	4	2300	56E 33	20	N		8		56J21- 66	10	N		6	
AA130R	4	2300	56E 33	20	N				56J21- 32	10	N		6	
AA130W	4	2300	56J14-D2	138	N				56J21- 33	10	N		6	
AA131R	4	2300	56J14-D3	138	N				56J21-240	10	N		6	
AA131W	4	2300	56E 33	20	N				56J21-239	10	N		6	
AA132R	4	2300	56J14-D4	138	N				56J21-202	10	N		6	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 16

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA132W	4	2300	56E 33	20	N				56J21-201	10	N		6	
AA133	1	1600		300		275	10			300		275	7	
AA133B	4	600	56TB1-S 5	138	N				SHLD AA133	20	N			
AA133L			56J14-M2	163	N				56TB1-U 6	163	N			
AA133R			56J14-M1	163	N				56TB1-T 6	163	N			
AA133W			56J14-M3	163	N				56TB1-U 5	163	N			
AA134R	4	2300	56E 33	20	N				56J21-167	10	N		6	
AA134W	4	2300	56J14-D5	138	N				56J21-168	10	N		6	
AA135R	4	2300	56J14-D6	138	N				56J21-135	10	N		6	
AA135W	4	2300	56E 33	20	N				56J21-134	10	N		6	
AA136	1	1600		300		275	10			300		275	7	
AA136B	4	600	56TB1-S 8	138	N				SHLD AA136	20	N			
AA136L			56J14-M6	163	N				56TB1-U 8	163	N			
AA136R			56J14-L6	163	N				56TB1-T 8	163	N			
AA136W			56J14-N6	163	N				56TB1-U 7	163	N			
AA137	4	600	56J14-R6	138	N				56E 33	20	N			
AA138	4	900	56J14-H3	138	N				56J15-L1	138	N			
AA139	4	900	56J14-C5	138	N				56J15-N4	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 17

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA140	4	900	56J14-C6	138	N				56J15-P4	138	N			
AA141	4	900	56J14-C3	138	N				56J15-N3	138	N			
AA142	4	900	56J14-C4	138	N				56J15-P3	138	N			
AA143	4	900	56J14-C1	138	N				56J15-N2	138	N			
AA144	4	900	56J14-C2	138	N				56J15-P2	138	N			
AA145	4	900	56J14-H4	138	N				56J15-M1	138	N			
AA146	4	900	56J14-K3	138	N				56J15-N1	138	N			
AA147	4	900	56J14-K4	138	N				56J15-P1	138	N			
AA148	4	900	56J14-F6	138	N				56J15-L2	138	N			
AA149	4	900	56J14-G6	138	N				56J15-M2	138	N			
AA150R	4	900	56J14-R1	138	N				56J15-R5	138	N			
AA150W	4	900	56J14-S1	138	N				56J15-S5	138	N			
AA151	4	900	56J14-H5	138	N				56J15-K3	138	N			
AA152	4	900	56J14-S6	138	N				56J15-S2	138	N			
AA153	4	900	56J14-R6	138	N				56J15-R2	138	N			
AA154R	4	1400	56J14-R4	138	N				56J17-S5	138	N			
AA154W	4	1400	56J14-S4	138	N				56J17-T5	138	N			
AA155K	3	1800	56J15-B2	88	N				56TB1-B 7	163	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 18

MIL 2085-4-64 WIR

INCHES

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.
AA155L	3	1800	56J15-B1	88	N				56TB1-C 7	163	N			
AA155R	3	1800	56J15-A2	88	N				56TB1-B 8	163	N			
AA155W	3	1800	56J15-A1	88	N				56TB1-C 8	163	N			
AA156	4	1500	56J15-R1	138	N				56TB2-C 2	138	N			
AA157R	4	2100	56J15-R2	138	N				56J21-101	10	N		6	
AA157W	4	2100	56J15-P1	138	N				56J21-102	10	N		6	
AA158	4	600	56J15-L5	138	N				56E 35	20	N		7	
AA159	4	600	56J15-L5	138	N				56E 36	20	N		7	
AA160	4	600	56J15-L5	138	N				56E 37	20	N		7	
AA161L	3	1500	56J15-D1	88	N				56TB2-C 5	163	N			
AA161R	3	1500	56J15-C1	88	N				56TB2-A 5	163	N			
AA161W	3	1500	56J15-C2	88	N				56TB2-B 5	163	N			
AA162L	3	1500	56J15-F2	88	N				56TB2-C 6	163	N			
AA162R	3	1500	56J15-D2	88	N				56TB2-A 6	163	N			
AA162W	3	1500	56J15-F1	88	N				56TB2-B 6	163	N			
AA163L	3	1500	56J15-C3	88	N				56TB2-C 4	163	N			
AA163R	3	1500	56J15-D3	88	N				56TB2-A 4	163	N			
AA163W	3	1500	56J15-D4	88	N				56TB2-B 4	163	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER .
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 19

MIL 2088-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.
AA164	3	600	56J15-A5	88	N				56E 38	20	N		7	
AA165	3	600	56J15-A7	88	N				56E 40	20	N		7	
AA166	3	600	56J15-A9	88	N				56E 42	20	N		7	
AA167	3	600	56J15-A5	88	N				56E 39	20	N		8	
AA168	3	600	56J15-A7	88	N				56E 41	20	N		8	
AA169	3	600	56J15-A9	88	N				56E 43	20	N		8	
AA170	4	1500	56J15-H4	138	N				56TB2-C 1	138	N			
AA171L	3	1500	56J15-F7	88	N				56TB2-C 8	163	N			
AA171R	3	1500	56J15-D7	88	N				56TB2-B 8	163	N			
AA171W	3	1500	56J15-D8	88	N				56TB2-A 8	163	N			
AA172L	3	1500	56J15-D9	88	N				56TB2-C 7	163	N			
AA172R	3	1500	56J15-F9	88	N				56TB2-B 7	163	N			
AA172W	3	1500	56J15-F8	88	N				56TB2-A 7	163	N			
AA173	4	1500	56J15-S1	138	N				56TB2-B 2	138	N			
AA174	4	1500	56J15-S3	138	N				56TB2-B 1	138	N			
AA175	4	2100	56J15-S3	138	N				56J22-227	10	N		6	
AA176	5	1500		225		200	9			300		275	8	
AA176B	4	600	56TB2-D 3	138	N				SHLD AA176	20	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 20

MIL 2088-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.
AA176L			56J15-B3	88	N	175			56TB2-D 2	138	N			
AA176R			56E 59	20	N		7		56TB2-F 3	138	N			
AA177	4	1500	56J15-R6	138	N				56TB2-D 1	138	N			
AA178	4	1800	56J15-H5	138	N				56J20-H4	138	N			
AA179	4	1800	56J15-S2	138	N				56J20-K1	138	N			
AA180R	3	900	56J15-A4	88	N				56J16-B2	88	N			
AA180W	3	900	56J15-A5	88	N				56J16-B1	88	N			
AA181R	3	900	56J15-A6	88	N				56J16-B4	88	N			
AA181W	3	900	56J15-A7	88	N				56J16-B3	88	N			
AA182R	3	900	56J15-A8	88	N				56J16-B6	88	N			
AA182W	3	900	56J15-A9	88	N				56J16-B5	88	N			
AA183	4	900	56J15-S1	138	N				56J16-L2	138	N			
AA184	4	900	56J15-H4	138	N				56J16-L1	138	N			
AA185R	4	900	56J15-P5	138	N				56J16-S3	138	N			
AA185W	4	900	56J15-P6	138	N				56J16-S4	138	N			
AA186	4	900	56J15-S6	138	N				56J16-S2	138	N			
AA187	4	900	56J15-K3	138	N				56J16-N4	138	N			
AA188R	4	1100	56J15-R5	138	N				56J17-L4	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 21

MIL 2088-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.
AA188W	4	1100	56J15-S5	138	N				56J17-L5	138	N			
AA189	4	1600	56J16-S5	138	N				56J20-N5	138	N			
AA190	4	1600	56J16-S6	138	N				56J20-N6	138	N			
AA191R	4	1600	56J16-N5	138	N				56J20-L3	138	N			
AA191W	4	1600	56J16-P5	138	N				56J20-K3	138	N			
AA192R	4	1600	56J16-N6	138	N				56J20-M4	138	N			
AA192W	4	1600	56J16-P6	138	N				56J20-L4	138	N			
AA193	4	1600	56J16-S2	138	N				56J20-K2	138	N			
AA194R	3	1700	56J16-D2	88	N				56TB2-G 3	163	N			
AA194W	3	1700	56J16-D1	88	N				56TB2-H 3	163	N			
AA195R	3	1700	56J16-D2	88	N				56TB2-G 2	163	N			
AA195W	3	1700	56J16-C2	88	N				56TB2-H 2	163	N			
AA196R	3	1700	56J16-D2	88	N				56TB2-G 1	163	N			
AA196W	3	1700	56J16-C1	88	N				56TB2-H 1	163	N			
AA197	1	1700		225		200	7			300		275	10	
AA197A	4	600	SHLD AA197	20	N				56J16-B1	88	N			
AA197L			56J16-B1	88	N				56TB2-T 7	163	N			
AA197R			56J16-A1	88	N				56TB2-U 6	163	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 22

MIL 2088-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	FROM TIN	FROM 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TO TIN	TO 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.
AA197W			56J16-A2	88	N				56TB2-T 6	163	N			
AA198R	4	1700	56J16-P1	138	N				56TB2-L 6	138	N			
AA198W	4	1700	56J16-R1	138	N				56TB2-L 5	138	N			
AA199R	3	1700	56J16-D4	88	N				56TB2-G 6	163	N			
AA199W	3	1700	56J16-D3	88	N				56TB2-H 6	163	N			
AA200R	3	1700	56J16-D4	88	N				56TB2-G 7	163	N			
AA200W	3	1700	56J16-C4	88	N				56TB2-H 7	163	N			
AA201R	3	1700	56J16-D4	88	N				56TB2-G 8	163	N			
AA201W	3	1700	56J16-C3	88	N				56TB2-H 8	163	N			
AA202	1	1700		225		200	7			300		275	10	
AA202A	4	600	SHLD AA202	20	N				56J16-B3	88	N			
AA202L			56J16-B3	88	N				56TB2-X 6	163	N			
AA202R			56J16-A3	88	N				56TB2-W 5	163	N			
AA202W			56J16-A4	88	N				56TB2-X 5	163	N			
AA203R	4	1700	56J16-P3	138	N				56TB2-K 3	138	N			
AA203W	4	1700	56J16-R3	138	N				56TB2-L 3	138	N			
AA204L	3	1700	56J16-C9	88	N				56TB2-R 8	163	N			
AA204R	3	1700	56J16-C8	88	N				56TB2-N 7	163	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 23

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	FROM TIN	FROM 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TO TIN	TO 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.
AA204W	3	1700	56J16-B8	88	N				56TB2-N 8	163	N			
AA205L	3	1700	56J16-B9	88	N				56TB2-T 8	163	N			
AA205R	3	1700	56J16-A9	88	N				56TB2-U 8	163	N			
AA205W	3	1700	56J16-A8	88	N				56TB2-U 7	163	N			
AA206R	3	1700	56J16-D6	88	N				56TB2-R 1	163	N			
AA206W	3	1700	56J16-D5	88	N				56TB2-N 1	163	N			
AA207R	3	1700	56J16-D6	88	N				56TB2-R 2	163	N			
AA207W	3	1700	56J16-C6	88	N				56TB2-N 2	163	N			
AA208R	3	1700	56J16-C5	88	N				56TB2-N 3	163	N			
AA208W	3	1700	56J16-D6	88	N				56TB2-R 3	163	N			
AA209L	3	1700	56J16-F8	88	N				56TB2-X 4	163	N			
AA209R	3	1700	56J16-D7	88	N				56TB2-W 3	163	N			
AA209W	3	1700	56J16-F7	88	N				56TB2-W 4	163	N			
AA210	4	1700	56J16-S1	138	N				56TB2-N 5	138	N			
AA211	4	1700	56J16-T1	138	N				56TB2-R 5	138	N			
AA212	4	1700	56J16-T2	138	N				56TB2-K 8	138	N			
AA213L	3	1700	56J16-F9	88	N				56TB2-X 2	163	N			
AA213R	3	1700	56J16-D9	88	N				56TB2-W 2	163	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 24

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	FROM TIN	FROM 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TO TIN	TO 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.
AA213W	3	1700	56J16-D8	88	N				56TB2-X 3	163	N			
AA214	1	1700		225		200	7			300		275	10	
AA214A	4	600	SHLD AA214	20	N				56J16-B5	88	N			
AA214L			56J16-B5	88	N				56TB2-R 7	163	N			
AA214R			56J16-A5	88	N				56TB2-N 6	163	N			
AA214W			56J16-A6	88	N				56TB2-R 6	163	N			
AA215R	4	1700	56J16-N2	138	N				56TB2-K 5	138	N			
AA215W	4	1700	56J16-N1	138	N				56TB2-K 6	138	N			
AA216	3	1700	56J16-F2	88	N				56TB2-W 1	163	N			
AA217	3	1700	56J16-F4	88	N				56TB2-X 1	163	N			
AA218	3	1700	56J16-F6	88	N				56TB2-S 1	163	N			
AA219	3	1700	56J16-F5	88	N				56TB2-T 1	163	N			
AA220	4	1900	56J16-L1	138	N				56J22-228	10	N		6	
AA221	4	1700	56J16-M1	138	N				56TB2-R 4	138	N			
AA222K	4	1700	56J16-R4	138	N				56TB2-H 5	138	N			
AA222L	4	1700	56J16-S3	138	N				56TB2-H 4	138	N			
AA222R	4	1700	56J16-S4	138	N				56TB2-G 4	138	N			
AA222W	4	1700	56J16-P4	138	N				56TB2-G 5	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 25

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	FROM TIN	FROM 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TO TIN	TO 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.
AA223	4	1700	56J16-P2	138	N				56TB2-K 4	138	N			
AA224R	4	1700	56J16-N5	138	N				56TB2-L 1	138	N			
AA224W	4	1700	56J16-P5	138	N				56TB2-K 1	138	N			
AA225R	4	1700	56J16-N6	138	N				56TB2-T 2	138	N			
AA225W	4	1700	56J16-P6	138	N				56TB2-U 3	138	N			
AA226	5	1900		300		275	8			100		75	9	
AA226A	4	600	SHLD AA226	20	N				56E 30	20	N		7	
AA226L			56J16-L3	138	N				56J21- 35	10	N		6	
AA226R			56J16-L4	138	N				56J21- 34	10	N		6	
AA227	5	1900		300		275	8			100		75	9	
AA227A	4	600	SHLD AA227	20	N				56E 30	20	N			
AA227L			56J16-L3	138	N				56J21- 69	10	N		6	
AA227R			56J16-M4	138	N				56J21- 68	10	N		6	
AA228	4	1500	56J16-R5	138	N				56TB3-L20	138	N			
AA229	4	1500	56J16-R6	138	N				56TB3-L20	138	N			
AA230L	4	1700	56J16-G2	138	N				56TB2-W 7	138	N			
AA230R	4	1700	56J16-H1	138	N				56TB2-X 7	138	N			
AA230W	4	1700	56J16-G1	138	N				56TB2-W 6	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 26

MIL 2085-4-64 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA231L	4	1700	56J16-G4	138	N				56TB2-U 4	138	N			
AA231R	4	1700	56J16-H3	138	N				56TB2-T 5	138	N			
AA231W	4	1700	56J16-G3	138	N				56TB2-U 5	138	N			
AA232	1	1800		300		275	7			300		275	7	
AA232A	4	600	SHLD AA232	20	N				56E 30	20	N			
AA232B	4	600	56E 31	20	N				SHLD AA232	20	N			
AA232L			56J16-L4	163	N				56J12-D1	163	N			
AA232R			56J16-M4	163	N				56J12-D2	163	N			
AA232W			56J16-L3	163	N				56E 31	20	N			
AA233R	4	1100	56J16-N5	138	N				56J18-S6	138	N			
AA233W	4	1100	56J16-P5	138	N				56J18-T6	138	N			
AA234	4	900	56J16-N4	138	N				56J17-L6	138	N			
AA235	4	1400	56J17-P6	138	N				56TB3-F 3	138	N			
AA236	4	1400	56J17-T4	138	N				56J20-M1	138	N			
AA237	4	1400	56J17-T3	138	N				56J20-M2	138	N			
AA238	4	1400	56J17-T1	138	N				56J20-P3	138	N			
AA239	4	1400	56J17-T2	138	N				56J20-P4	138	N			
AA240	4	900	56J17-T6	138	N				56J18-S1	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 27

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA241	4	900	56J17-L6	138	N				56J18-R5	138	N			
AA242L	4	900	56J17-K4	138	N				56J18-K1	138	N			
AA242R	4	900	56J17-G4	138	N				56J18-L1	138	N			
AA242W	4	600	56J17-H4	138	N				56E 53	20	N		7	
AA243L	4	900	56J17-K6	138	N				56J18-K4	138	N			
AA243R	4	900	56J17-G6	138	N				56J18-L4	138	N			
AA243W	4	600	56J17-H6	138	N				56E 51	20	N		7	
AA244	5	1600		225		200	9			100		75	8	
AA244B	4	600	56J22- 41	10	N		6		SHLD AA244	20	N			
AA244L			56J17-A4	88	N				56J22- 3	10	N		6	
AA244R			56J17-B4	88	N				56J22- 4	10	N		6	
AA245	5	1600		225		200	9			100		75	8	
AA245B	4	600	56J22- 5	10	N		6		SHLD AA245	20	N			
AA245L			56J17-C4	88	N				56J22- 6	10	N		6	
AA245R			56J17-D4	88	N				56J22- 43	10	N		6	
AA246	5	1600		225		200	9			100		75	8	
AA246B	4	600	56J22- 8	10	N		6		SHLD AA246	20	N			
AA246L			56J17-C3	88	N				56J22- 45	10	N		6	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 28

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA246R			56J17-D3	88	N				56J22- 46	10	N		6	
AA247R	3	1400	56J17-D2	88	N				56TB3-R 4	163	N			
AA247W	3	1400	56J17-D3	88	N				56TB3-R 5	163	N			
AA248	4	1400	56J17-S2	138	N				56TB3-T 3	138	N			
AA249	3	1400	56J17-F8	88	N				56TB3-L 2	163	N			
AA250R	4	1400	56J17-P4	138	N				56TB3-C 2	138	N			
AA250W	4	1400	56J17-R4	138	N				56TB3-D 2	138	N			
AA251	3	1400	56J17-D8	88	N				56TB3-M 2	163	N			
AA252	3	1400	56J17-B7	88	N				56TB3-H 3	163	N			
AA253	3	1400	56J17-B8	88	N				56TB3-G 3	163	N			
AA254	3	1400	56J17-C7	88	N				56TB3-G 4	163	N			
AA255	3	1400	56J17-D6	88	N				56TB3-M 5	163	N			
AA256	3	1400	56J17-D7	88	N				56TB3-M 4	163	N			
AA257	3	1400	56J17-F7	88	N				56TB3-C 1	163	N			
AA258K	4	1400	56J17-N6	138	N				56TB3-G 1	138	N			
AA258L	4	1400	56J17-N5	138	N				56TB3-G 2	138	N			
AA258R	4	1400	56J17-M6	138	N				56TB3-H 1	138	N			
AA258W	4	1400	56J17-M5	138	N				56TB3-H 2	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 29

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM						TO					
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA259	4	1400	56J17-H1	138	N				56TB3-K 2	138	N			
AA260	4	1400	56J17-H2	138	N				56TB3-K 1	138	N			
AA261	4	1400	56J17-G1	138	N				56TB3-K 5	138	N			
AA262	4	1400	56J17-G2	138	N				56TB3-H 5	138	N			
AA263	4	1400	56J17-L1	138	N				56TB3-L 5	138	N			
AA264	4	1400	56J17-M1	138	N				56TB3-D 1	138	N			
AA265	5	1400		300		275	9			300		275	8	
AA265B	4	600	56TB3-S 3	138	N				SHLD AA265	20	N			
AA265L			56J17-M4	138	N				56TB3-N 1	138	N			
AA265R			56J17-N4	138	N				56TB3-N 2	138	N			
AA266	3	1400	56J17-C5	88	N				56TB3-K 3	163	N			
AA267	3	1400	56J17-B6	88	N				56TB3-L 4	163	N			
AA268	3	1400	56J17-B5	88	N				56TB3-L 3	163	N			
AA269	3	1400	56J17-D5	88	N				56TB3-M 1	163	N			
AA270	5	1400		300		275	9			300		275	8	
AA270B	4	600	56TB3-N 3	138	N				SHLD AA270	20	N			
AA270L			56J17-N1	138	N				56TB3-N 4	138	N			
AA270R			56J17-P1	138	N				56TB3-N 5	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 30

MIL 2085-4-64 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N		FROM TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N		TO TERMINATION SPEC ITEM NO.	NO.
AA271	3	1400	56J17-F6	88	N				56TB3-C 4	163	N			
AA272	3	1400	56J17-F5	88	N				56TB3-D 4	163	N			
AA273	3	1400	56J17-F4	88	N				56TB3-C 5	163	N			
AA274	3	1400	56J17-F3	88	N				56TB3-D 5	163	N			
AA275	4	1400	56J17-P5	138	N				56TB3-D 3	138	N			
AA276	3	1400	56J17-C6	88	N				56TB3-H 4	163	N			
AA277	4	1400	56J17-M2	138	N				56TB3-G 5	138	N			
AA278	4	1400	56J17-M3	138	N				56TB3-F 1	138	N			
AA280	4	1400	56J17-R5	138	N				56TB3-M21	138	N			
AA281L	3	1400	56J17-A8	88	N				56TB3-T 6	163	N			
AA281R	3	1400	56J17-A7	88	N				56TB3-T 5	163	N			
AA281W	3	1400	56J17-A6	88	N				56TB3-T 4	163	N			
AA282	4	1400	56J17-R6	138	N				56TB3-L21	138	N			
AA283	4	600	56J17-R6	138	N				56J17-S6	138	N			
AA284L	3	1400	56J17-F9	88	N				56TB3-S 4	163	N			
AA284R	3	1400	56J17-D9	88	N				56TB3-S 5	163	N			
AA284W	3	1400	56J17-C9	88	N				56TB3-S 6	163	N			
AA285	3	1400	56J17-A9	88	N				56TB3-M 3	163	N			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 31

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N		FROM TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N		TO TERMINATION SPEC ITEM NO.	NO.
AA286	3	1400	56J17-B9	88	N				56TB3-K 4	163	N			
AA287	5	1600		225		200	9			100		75	6	
AA287B	4	600	56J22- 2	10	N		6		SHLD AA287	20	N			
AA287L			56J17-A3	88	N				56J22- 1	10	N		6	
AA287R			56J17-B3	88	N				56J22- 39	10	N		6	
AA288	5	1600		225		200	9			100		75	6	
AA288B	4	600	56J22- 11	10	N		6		SHLD AA288	20	N			
AA288L			56J17-D1	88	N				56J22- 48	10	N		6	
AA288R			56J17-C1	88	N				56J22- 10	10	N		6	
AA289R	3	1400	56J17-C2	88	N				56TB3-M14	163	N			
AA289W	3	1400	56J17-C1	88	N				56TB3-M13	163	N			
AA290	3	1400	56J17-C8	88	N				56TB3-L 1	163	N			
AA291	4	600	56J17-S1	138	N				56J17-S2	138	N			
AA292	4	1600	56J17-M3	138	N				56J22-206	10	N		6	
AA293	4	1600	56J17-L3	138	N				56J22-243	10	N		6	
AA294	4	600	56J17-T1	138	N				56J17-T2	138	N			
AA295	4	1400	56J17-S3	138	N				56TB3-N 3	138	N			
AA296	4	1400	56J17-S1	138	N				56TB3-S 3	138	N			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 32

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N		FROM TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N		TO TERMINATION SPEC ITEM NO.	NO.
AA297	4	1400	56J17-S4	138	N				56TB3-R 3	138	N			
AA298	4	900	56J18-S1	138	N				56J19-T1	138	N			
AA299R	3	900	56J18-F2	88	N				56J19-F4	88	N			
AA299W	3	900	56J18-F1	88	N				56J19-D4	88	N			
AA300R	3	900	56J18-C8	88	N				56J19-B2	88	N			
AA300W	3	900	56J18-B8	88	N				56J19-C1	88	N			
AA301R	3	900	56J18-D9	88	N				56J19-B3	88	N			
AA301W	3	900	56J18-C9	88	N				56J19-A4	88	N			
AA302K	4	900	56J18-G5	138	N				56J19-H6	138	N			
AA302L	4	900	56J18-H5	138	N				56J19-H5	138	N			
AA302R	4	900	56J18-H6	138	N				56J19-G5	138	N			
AA302W	4	900	56J18-G6	138	N				56J19-G6	138	N			
AA303	4	900	56J18-P3	138	N				56J19-R4	138	N			
AA304R	4	900	56J18-S6	138	N				56J19-N6	138	N			
AA304W	4	900	56J18-T6	138	N				56J19-P6	138	N			
AA305	4	900	56J18-S5	138	N				56J19-P5	138	N			
AA306	4	900	56J18-R5	138	N				56J19-P3	138	N			
AA307	5	1400		225		200	9			300		275	8	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 33

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N		FROM TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N		TO TERMINATION SPEC ITEM NO.	NO.
AA307B	4	600	56TB3-R 9	138	N				SHLD AA307	20	N			
AA307L			56J18-C2	88	N				56TB3-T 8	138	N			
AA307R			56J18-B2	88	N				56TB3-T 7	138	N			
AA308	5	1400		225		200	9			300		275	8	
AA308B	4	600	56TB3-N 9	138	N				SHLD AA308	20	N			
AA308L			56J18-A1	88	N				56TB3-S 8	138	N			
AA308R			56J18-B1	88	N				56TB3-S 7	138	N			
AA309	5	1400		225		200	9			300		275	8	
AA309B	4	600	56TB3-T 9	138	N				SHLD AA309	20	N			
AA309L			56J18-A2	88	N				56TB3-T10	138	N			
AA309R			56J18-A3	88	N				56TB3-T11	138	N			
AA310	5	1400		225		200	9			300		275	8	
AA310B	4	600	56TB3-S 9	138	N				SHLD AA310	20	N			
AA310L			56J18-B3	88	N				56TB3-S10	138	N			
AA310R			56J18-B4	88	N				56TB3-S11	138	N			
AA311R	3	1400	56J18-D3	88	N				56TB3-R 7	163	N			
AA311W	3	1400	56J18-D2	88	N				56TB3-R 8	163	N			
AA312R	3	1400	56J18-C1	88	N				56TB3-R11	163	N			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 34

MIL 2085-4-64 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA312W	3	1400	56J18-D1	88	N				56TB3-R10	163	N			
AA313R	3	1400	56J18-A5	88	N				56TB3-N 7	163	N			
AA313W	3	1400	56J18-A4	88	N				56TB3-N 8	163	N			
AA314R	3	1400	56J18-C5	88	N				56TB3-N11	163	N			
AA314W	3	1400	56J18-B5	88	N				56TB3-N10	163	N			
AA315	5	1400		225		200	9			300		275	8	
AA315B	4	600	56TB3-M 9	138	N				SHLD AA315	20	N			
AA315L			56J18-A9	88	N				56TB3-M 8	138	N			
AA315R			56J18-B9	88	N				56TB3-M 7	138	N			
AA316	5	1400		225		200	9			300		275	8	
AA316B	4	600	56TB3-L 9	138	N				SHLD AA316	20	N			
AA316L			56J18-A8	88	N				56TB3-L 7	138	N			
AA316R			56J18-A7	88	N				56TB3-L 8	138	N			
AA317R	3	1400	56J18-B6	88	N				56TB3-L11	163	N			
AA317W	3	1400	56J18-A6	88	N				56TB3-L10	163	N			
AA318R	3	1400	56J18-F4	88	N				56TB3-K12	163	N			
AA318W	3	1400	56J18-F3	88	N				56TB3-L12	163	N			
AA319	4	1400	56J18-P1	138	N				56TB3-D12	138	N			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 35

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA320	4	1400	56J18-R1	138	N				56TB3-C12	138	N			
AA321	4	1400	56J18-R2	138	N				56TB3-C11	138	N			
AA322	4	1400	56J18-P2	138	N				56TB3-D11	138	N			
AA323	4	600	56J18-S3	138	N				56J18-S4	138	N			
AA324	4	600	56J18-T3	138	N				56J18-T4	138	N			
AA325	4	1400	56J18-S3	138	N				56TB3-K20	138	N			
AA326L	3	1400	56J18-F9	88	N				56TB3-M11	163	N			
AA326R	3	1400	56J18-F8	88	N				56TB3-M12	163	N			
AA326W	3	1400	56J18-D8	88	N				56TB3-M10	163	N			
AA327	4	1400	56J18-T3	138	N				56TB3-K20	138	N			
AA328L	4	1400	56J18-L6	138	N				56TB3-R12	138	N			
AA328R	4	1400	56J18-L5	138	N				56TB3-S12	138	N			
AA328W	4	1400	56J18-K6	138	N				56TB3-T12	138	N			
AA329	5	1500		225		200	9			300		275	8	
AA329B	4	600	56TB3-H 9	138	N				SHLD AA329	20	N			
AA329L			56J19-C2	88	N				56TB3-H 8	138	N			
AA329R			56J19-B2	88	N				56TB3-H 7	138	N			
AA330R	3	1400	56J18-F2	88	N				56TB3-F10	163	N			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 36

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA330W	3	1400	56J18-F1	88	N				56TB3-G10	163	N			
AA331	5	1500		225		200	9			300		275	8	
AA331B	4	600	56TB3-K 9	138	N				SHLD AA331	20	N			
AA331L			56J19-B4	88	N				56TB3-H10	138	N			
AA331R			56J19-B3	88	N				56TB3-H11	138	N			
AA332R	4	1400	56J18-H1	138	N				56TB3-K11	138	N			
AA332W	4	1400	56J18-G1	138	N				56TB3-K10	138	N			
AA333	4	1400	56J18-R3	138	N				56TB3-K20	138	N			
AA334R	3	1400	56J18-D6	88	N				56TB3-G13	163	N			
AA334W	3	1400	56J18-C6	88	N				56TB3-G14	163	N			
AA335R	3	1400	56J18-D7	88	N				56TB3-G12	163	N			
AA335W	3	1400	56J18-C7	88	N				56TB3-G11	163	N			
AA336R	3	1400	56J18-F7	88	N				56TB3-F12	163	N			
AA336W	3	1400	56J18-F6	88	N				56TB3-F11	163	N			
AA337	4	1400	56J18-R4	138	N				56TB3-B11	138	N			
AA338R	3	1400	56J18-D4	88	N				56TB3-K 7	163	N			
AA338W	3	1400	56J18-D5	88	N				56TB3-K 8	163	N			
AA339	4	600	56J18-S5	138	N				56J18-T5	138	N			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 37

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA340R	4	1400	56J18-N1	138	N				56TB3-D 7	138	N			
AA340W	4	1400	56J18-M1	138	N				56TB3-C 7	138	N			
AA341R	4	1400	56J18-N3	138	N				56TB3-D 8	138	N			
AA341W	4	1400	56J18-M3	138	N				56TB3-C 8	138	N			
AA342R	4	1400	56J18-N4	138	N				56TB3-B 7	138	N			
AA342W	4	1400	56J18-M4	138	N				56TB3-B 8	138	N			
AA343R	4	1400	56J18-N6	138	N				56TB3-D 9	138	N			
AA343W	4	1400	56J18-M6	138	N				56TB3-D10	138	N			
AA344R	4	1400	56J18-H3	138	N				56TB3-F 7	138	N			
AA344W	4	1400	56J18-G3	138	N				56TB3-G 7	138	N			
AA345R	4	1400	56J18-H2	138	N				56TB3-F 8	138	N			
AA345W	4	1400	56J18-G2	138	N				56TB3-G 8	138	N			
AA346	4	600	56J18-H2	138	N				56E 52	20	N		7	
AA347	4	600	56J18-H2	138	N				56E 53	20	N			
AA348	4	600	56J18-H3	138	N				56E 50	20	N		7	
AA349	4	600	56J18-H3	138	N				56E 51	20	N			
AA350	4	600	56J18-M1	138	N				56J18-P3	138	N			
AA351	4	600	56J18-M1	138	N				56J18-M2	138	N			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 38

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
AA352	4	600	56J18-M2	138	N			56J18-M3	138	N		
AA353	4	600	56J18-M3	138	N			56J18-M4	138	N		
AA354	4	600	56J18-M4	138	N			56J18-M5	138	N		
AA355	4	600	56J18-M5	138	N			56J18-M6	138	N		
AA356	4	900	56J19-P3	138	N			56J20-G4	138	N		
AA357	4	900	56J19-T1	138	N			56J20-M6	138	N		
AA358R	4	1500	56J19-S2	138	N			56TB3-D17	138	N		
AA358W	4	1500	56J19-S3	138	N			56TB3-D16	138	N		
AA359R	4	1500	56J19-P1	138	N			56TB3-D18	138	N		
AA359W	4	1500	56J19-R1	138	N			56TB3-F18	138	N		
AA360R	4	1500	56J19-T2	138	N			56TB3-C17	138	N		
AA360W	4	1500	56J19-T3	138	N			56TB3-C16	138	N		
AA361R	4	1500	56J19-P2	138	N			56TB3-G17	138	N		
AA361W	4	1500	56J19-R2	138	N			56TB3-F17	138	N		
AA362	4	600	56J19-R5	138	N			56J19-S4	138	N		
AA363	4	600	56J19-R6	138	N			56J19-T4	138	N		
AA364	4	1500	56J19-S4	138	N			56TB3-K22	138	N		
AA365	4	1500	56J19-T4	138	N			56TB3-L22	138	N		

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2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR H SHEET 39

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
AA366	4	600	56J19-S5	138	N			56J19-S6	138	N		
AA367	4	1500	56J19-T6	138	N			56TB3-L22	138	N		
AA368	4	600	56J19-T5	138	N			56J19-T6	138	N		
AA369	4	1500	56J19-S5	138	N			56TB3-K22	138	N		
AA370R	3	1500	56J19-B1	88	N			56TB3-T17	163	N		
AA370W	3	1500	56J19-A1	88	N			56TB3-T16	163	N		
AA371R	3	1500	56J19-A2	88	N			56TB3-S16	163	N		
AA371W	3	1500	56J19-A3	88	N			56TB3-S17	163	N		
AA372R	3	1500	56J19-A8	88	N			56TB3-R16	163	N		
AA372W	3	1500	56J19-A9	88	N			56TB3-R17	163	N		
AA373R	3	1500	56J19-C9	88	N			56TB3-N17	163	N		
AA373W	3	1500	56J19-B9	88	N			56TB3-N16	163	N		
AA374R	3	1500	56J19-D2	88	N			56TB3-M17	163	N		
AA374W	3	1500	56J19-D1	88	N			56TB3-M16	163	N		
AA375R	3	1500	56J19-B5	88	N			56TB3-H17	163	N		
AA375W	3	1500	56J19-A5	88	N			56TB3-H16	163	N		
AA376	3	1500	56J19-C5	88	N			56TB3-S18	163	N		
AA377R	3	1500	56J19-B8	88	N			56TB3-K17	163	N		

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR H SHEET 40

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
AA377W	3	1500	56J19-B7	88	N			56TB3-K16	163	N		
AA378	3	1500	56J19-A7	88	N			56TB3-R18	163	N		
AA379R	3	1500	56J19-C8	88	N			56TB3-L16	163	N		
AA379W	3	1500	56J19-D8	88	N			56TB3-L17	163	N		
AA380	3	1500	56J19-C7	88	N			56TB3-T18	163	N		
AA381R	3	1500	56J19-F6	88	N			56TB3-G16	163	N		
AA381W	3	1500	56J19-F5	88	N			56TB3-F16	163	N		
AA382R	4	1500	56J19-G1	138	N			56TB3-T13	138	N		
AA382W	4	1500	56J19-H1	138	N			56TB3-T14	138	N		
AA383R	4	1500	56J19-G2	138	N			56TB3-S14	138	N		
AA383W	4	1500	56J19-G3	138	N			56TB3-S13	138	N		
AA384	3	1500	56J19-C3	88	N			56TB3-N18	163	N		
AA385	3	1500	56J19-C4	88	N			56TB3-M18	163	N		
AA386R	3	1500	56J19-F8	88	N			56TB3-R14	163	N		
AA386W	3	1500	56J19-F9	88	N			56TB3-R13	163	N		
AA387	4	1500	56J19-M6	138	N			56TB3-G18	138	N		
AA388	4	1500	56J19-M5	138	N			56TB3-K18	138	N		
AA389	4	1500	56J19-N5	138	N			56TB3-L18	138	N		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
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SCALE - NONE REV LTR H SHEET 41

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
AA390	4	1500	56J19-R4	138	N			56TB3-K21	138	N		
AA391R	4	1500	56J19-L1	138	N			56TB3-C 9	138	N		
AA391W	4	1500	56J19-K1	138	N			56TB3-C10	138	N		
AA392R	4	1500	56J19-L3	138	N			56TB3-B 9	138	N		
AA392W	4	1500	56J19-K3	138	N			56TB3-B10	138	N		
AA393	4	1500	56J19-P5	138	N			56TB3-K21	138	N		
AA394	4	600	56J19-P4	138	N			56J19-P5	138	N		
AA396R	3	1500	56J19-D6	88	N			56TB3-N13	163	N		
AA396W	3	1500	56J19-D5	88	N			56TB3-N14	163	N		
AA397	4	600	56J19-K1	138	N			56J19-R4	138	N		
AA398	4	600	56J19-K1	138	N			56J19-K2	138	N		
AA399	4	600	56J19-K2	138	N			56J19-K3	138	N		
AA400	4	600	56J19-K3	138	N			56J19-K4	138	N		
AA401	4	600	56J19-K4	138	N			56J19-K5	138	N		
AA402	4	600	56J19-K5	138	N			56J19-K6	138	N		
AA403	4	1000	56J20-L5	138	N			56J21- 37	10	N	6	
AA404	4	1700	56J20-L5	138	N			56TB3-M22	138	N		
AA405	4	1700	56J20-M5	138	N			56TB3-M21	138	N		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR H SHEET 42

MIL 2085-4-64 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA406	4	1700	56J20-N6	138	N				56TB3-H20	138	N			
AA407	4	1700	56J20-N4	138	N				56TB3-L21	138	N			
AA408	4	1700	56J20-N3	138	N				56TB3-K22	138	N			
AA409R	4	2500	56J20-F6	138	N				56TB2-H 4	138	N			
AA409W	4	2500	56J20-F5	138	N				56TB2-G 4	138	N			
AA410R	4	1700	56J20-F6	138	N				56TB3-B19	138	N			
AA410W	4	1700	56J20-F5	138	N				56TB3-B18	138	N			
AA411	4	600	56J20-G5	138	N				56J20-H5	138	N			
AA412R	4	1700	56J20-H6	138	N				56TB3-C 3	138	N			
AA412W	4	1700	56J20-H5	138	N				56TB3-D 2	138	N			
AA413	4	600	56J20-G6	138	N				56J20-H6	138	N			
AA414	4	1700	56J20-A4	138	N				56TB3-K19	138	N			
AA415	4	1700	56J20-B4	138	N				56TB3-H19	138	N			
AA416	4	1700	56J20-A1	138	N				56TB3-G19	138	N			
AA417	4	1700	56J20-A2	138	N				56TB3-F19	138	N			
AA418	4	1700	56J20-B1	138	N				56TB3-D19	138	N			
AA419R	4	1700	56J20-B3	138	N				56TB3-N21	138	N			
AA419W	4	1700	56J20-A3	138	N				56TB3-N20	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 43

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA420	4	1700	56J20-K5	138	N				56TB3-G21	138	N			
AA421	4	1700	56J20-K6	138	N				56TB3-G22	138	N			
AA422	4	1700	56J20-H4	138	N				56TB3-R20	138	N			
AA423	4	1000	56J20-H4	138	N				56J21-234	10	N		6	
AA424	4	1700	56J20-K4	138	N				56TB3-N19	138	N			
AA425	4	1700	56J20-C6	138	N				56TB3-L19	138	N			
AA426	4	1700	56J20-D6	138	N				56TB3-M19	138	N			
AA427R	4	1700	56J20-B5	138	N				56TB3-T19	138	N			
AA427W	4	1700	56J20-C5	138	N				56TB3-S19	138	N			
AA428	4	1700	56J20-N1	138	N				56TB3-C20	138	N			
AA429	4	600	56J20-N1	138	N				56J20-P1	138	N			
AA431	4	600	56J20-R1	138	N				56J20-S1	138	N			
AA432	4	1700	56J20-S1	138	N				56TB3-C21	138	N			
AA433	4	1700	56J20-N2	138	N				56TB3-D20	138	N			
AA434	4	600	56J20-N2	138	N				56J20-P2	138	N			
AA436	4	600	56J20-R2	138	N				56J20-S2	138	N			
AA437	4	1700	56J20-S2	138	N				56TB3-D21	138	N			
AA438	4	600	56J20-L1	138	N				56J20-M1	138	N			

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 44

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA439	4	600	56J20-L1	138	N				56J20-L2	138	N			
AA440	4	600	56J20-L2	138	N				56J20-M2	138	N			
AA441	4	1700	56J20-R3	138	N				56TB3-D22	138	N			
AA442	4	600	56J20-R3	138	N				56J20-S3	138	N			
AA443	4	1700	56J20-R4	138	N				56TB3-C22	138	N			
AA444	4	600	56J20-R4	138	N				56J20-S4	138	N			
AA445	4	1700	56J20-P3	138	N				56TB3-N22	138	N			
AA446	4	1700	56J20-P5	138	N				56TB3-H21	138	N			
AA447	4	600	56J20-P5	138	N				56J20-R5	138	N			
AA448	4	600	56J20-R5	138	N				56J20-S5	138	N			
AA449	4	1700	56J20-S5	138	N				56TB3-H21	138	N			
AA450	4	1700	56J20-P6	138	N				56TB3-H22	138	N			
AA451	4	600	56J20-P6	138	N				56J20-R6	138	N			
AA452	4	600	56J20-R6	138	N				56J20-S6	138	N			
AA453	4	1700	56J20-S6	138	N				56TB3-H22	138	N			
AA454	4	1700	56J20-K1	138	N				56TB3-T20	138	N			
AA455	4	1700	56J20-K1	138	N				56TB3-T21	138	N			
AA456	4	1700	56J20-K2	138	N				56TB3-S21	138	N			

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 45

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
AA457	4	1700	56J20-M6	138	N				56TB3-M20	138	N			
AA458	4	600	56J20-G1	138	N				56J20-H1	138	N			
AA459	4	600	56J20-H1	138	N				56J20-H2	138	N			
AA460	4	2500	56J20-G1	138	N				56TB2-M 7	138	N			
AA461	4	2500	56J20-H2	138	N				56TB2-M 1	138	N			
AA462	4	1700	56J20-G4	138	N				56TB3-F22	138	N			
AA463R	4	1700	56J20-D4	138	N				56TB3-S20	138	N			
AA463W	4	1700	56J20-D5	138	N				56TB3-R19	138	N			
AA464R	4	1700	56J20-A6	138	N				56TB3-L13	138	N			
AA464W	4	1700	56J20-B6	138	N				56TB3-K13	138	N			
AA465R	4	1700	56J20-H3	138	N				56TB3-L14	138	N			
AA465W	4	1700	56J20-G3	138	N				56TB3-K14	138	N			
AA466	4	600	56TB3-H12	138	N				56TB3-R 3	138	N			
AA467	5	2100		100		75	8			300		275	9	
AA467A	4	600	SHLD AA467	20	N				56E 46	20	N		8	
AA467L			56J21-126	10	N		6		56J15-M5	138	N	250		
AA467R			56J21-125	10	N		6		56E 35	20	N			
AA468	5	2100		100		75	8			300		275	9	

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 46

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.
AA468A	4	600	SHLD AA468	20	N				56E 46	20	N			
AA468L			56J21- 93	10	N		6		56J15-M6	138	N	250		
AA468R			56J21- 92	10	N		6		56E 35	20	N			
AA469	5	2100		100		75	8			300		275	9	
AA469A	4	600	SHLD AA469	20	N				56E 46	20	N			
AA469L			56J21-195	10	N		6		56J15-L6	138	N	250		
AA469R			56J21-194	10	N		6		56E 36	20	N			
AA470	5	2100		100		75	8			300		275	9	
AA470A	4	600	SHLD AA470	20	N				56E 46	20	N			
AA470L			56J21-161	10	N		6		56J15-K6	138	N	250		
AA470R			56J21-160	10	N		6		56E 36	20	N			
AA471	5	2100		100		75	8			300		275	9	
AA471A	4	600	SHLD AA471	20	N				56E 46	20	N			
AA471L			56J21- 95	10	N		6		56J15-K4	138	N	250		
AA471R			56J21- 94	10	N		6		56E 37	20	N			
AA472	5	2100		100		75	8			300		275	9	
AA472A	4	600	SHLD AA472	20	N				56E 46	20	N			
AA472L			56J21-128	10	N		6		56J15-K5	138	N	250		

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 47

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.
AA472R			56J21-127	10	N		6		56E 37	20	N			
AA473	4	600	56J21- 23	10	N		6		56E 45	20	N		8	
AA474	4	600	56E 70	20	N		8		56E 47	20	N		8	
AA475	5	2100		100		75	8			225		200	9	
AA475A	4	600	SHLD AA475	20	N				56E 47	20	N			
AA475L			56J21- 24	10	N		6		56J15-B4	88	N	175		
AA475R			56J21- 25	10	N		6		56E 38	20	N			
AA476	5	2100		100		75	8			225		200	9	
AA476A	4	600	SHLD AA476	20	N				56E 47	20	N			
AA476L			56J21- 27	10	N		6		56E 38	20	N			
AA476R			56J21- 26	10	N		6		56J15-C4	88	N	175		
AA477	5	2100		100		75	8			225		200	9	
AA477A	4	600	SHLD AA477	20	N				56E 47	20	N			
AA477L			56J21-232	10	N		6		56J15-B6	88	N	175		
AA477R			56J21-233	10	N		6		56E 40	20	N			
AA478	5	2100		100		75	8			225		200	9	
AA478A	4	600	SHLD AA478	20	N				56E 47	20	N			
AA478L			56J21-193	10	N		6		56E 40	20	N			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 48

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.
AA478R			56J21-192	10	N		6		56J15-C6	88	N	175		
AA479	5	2100		100		75	8			225		200	9	
AA479A	4	600	SHLD AA479	20	N				56E 47	20	N			
AA479L			56J21- 56	10	N		6		56J15-B8	88	N	175		
AA479R			56J21- 57	10	N		6		56E 42	20	N			
AA480	5	2100		100		75	8			225		200	9	
AA480A	4	600	SHLD AA480	20	N				56E 47	20	N			
AA480L			56J21- 59	10	N		6		56E 42	20	N			
AA480R			56J21- 58	10	N		6		56J15-C8	88	N	175		
AA481	5	2100		100		75	9			225		200	8	
AA481B	4	600	56E 39	20	N				SHLD AA481	20	N			
AA481L			56J21-237	10	N		6		56J15-B5	88	N	175		
AA481R			56J21-238	10	N		6		56E 39	20	N			
AA482	5	2100		100		75	9			225		200	8	
AA482B	4	600	56E 39	20	N				SHLD AA482	20	N			
AA482L			56J21-200	10	N		6		56E 39	20	N			
AA482R			56J21-199	10	N		6		56J15-C5	88	N	175		
AA483	5	2100		100		75	9			225		200	8	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 49

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.
AA483B	4	600	56E 41	20	N				SHLD AA483	20	N			
AA483L			56J21-165	10	N		6		56J15-B7	88	N	175		
AA483R			56J21-166	10	N		6		56E 41	20	N			
AA484	5	2100		100		75	9			225		200	8	
AA484B	4	600	56E 41	20	N				SHLD AA484	20	N			
AA484L			56J21- 98	10	N		6		56E 41	20	N			
AA484R			56J21- 97	10	N		6		56J15-C7	88	N	175		
AA485	5	2100		100		75	9			225		200	8	
AA485B	4	600	56E 43	20	N				SHLD AA485	20	N			
AA485L			56J21- 64	10	N		6		56J15-B9	88	N	175		
AA485R			56J21- 65	10	N		6		56E 43	20	N			
AA486	5	2100		100		75	9			225		200	8	
AA486B	4	600	56E 43	20	N				SHLD AA486	20	N			
AA486L			56J21- 31	10	N		6		56E 43	20	N			
AA486R			56J21- 30	10	N		6		56J15-C9	88	N	175		
AA487	5	2700		100		75	8			300		275	8	
AA487A	4	600	SHLD AA487	20	N				56E 57	20	N		8	
AA487B	4	600	56TB2-D 3	138	N				SHLD AA487	20	N			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 50

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.
AA487L			56J21-121	10	N		6	56TB2-D 2	138	N		
AA487R			56J21-122	10	N		6	56TB2-F 3	138	N		
AA488	5	2100		100		75	8		225		200	9
AA488A	4	600	SHLD AA488	20	N			56E 57	20	N		
AA488L			56J21-188	10	N		6	56J15-A3	88	N		
AA488R			56J21-189	10	N		6	56E 59	20	N		
AA489	5	1900		100		75	8		225		200	9
AA489A	4	600	SHLD AA489	20	N			56E 57	20	N		
AA489L			56J21-152	10	N		6	56J16-A7	88	N	175	
AA489R			56J21-153	10	N		6	56E 60	20	N		7
AA490	5	2700		100		75	9		300		275	8
AA490B	4	600	56E 29	20	N			SHLD AA490	20	N		
AA490L			56J21-169	10	N		6	56J12-G1	138	N	250	
AA490R			56J21-170	10	N		6	56E 29	20	N		
AA491	5	2700		100		75	9		300		275	8
AA491B	4	600	56E 29	20	N			SHLD AA491	20	N		
AA491L			56J21-137	10	N		6	56E 29	20	N		
AA491R			56J21-136	10	N		6	56J12-G2	138	N	250	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE - NONE

REV LTR H

SHEET 51

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.
AA492	5	1400		100		75	9		300		275	8
AA492B	4	600	56E 71	20	N			SHLD AA492	20	N		
AA492L			56J21-163	10	N		6	56J18-K2	138	N	250	
AA492R			56J21-164	10	N		6	56E 52	20	N		
AA493	5	1400		100		75	9		300		275	8
AA493B	4	600	56E 71	20	N			SHLD AA493	20	N		
AA493L			56J21-131	10	N		6	56E 52	20	N		
AA493R			56J21-130	10	N		6	56J18-L2	138	N	250	
AA494	5	1400		100		75	8		300		275	9
AA494A	4	600	SHLD AA494	20	N			56E 45	20	N		
AA494L			56J21-156	10	N		6	56J18-L1	138	N	250	
AA494R			56J21-157	10	N		6	56E 53	20	N		
AA495	5	1400		100		75	8		300		275	9
AA495A	4	600	SHLD AA495	20	N			56E 45	20	N		
AA495L			56J21-123	10	N		6	56J18-K1	138	N	250	
AA495R			56J21-124	10	N		6	56E 53	20	N		
AA496	5	1400		100		75	9		300		275	8
AA496B	4	600	56E 71	20	N			SHLD AA496	20	N		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE - NONE

REV LTR H

SHEET 52

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.
AA496L			56J21-235	10	N		6	56J18-K3	138	N	250	
AA496R			56J21-236	10	N		6	56E 50	20	N		
AA497	5	1400		100		75	9		300		275	8
AA497B	4	600	56E 71	20	N		8	SHLD AA497	20	N		
AA497L			56J21-198	10	N		6	56E 50	20	N		
AA497R			56J21-197	10	N		6	56J18-L3	138	N	250	
AA498	5	1400		100		75	8		300		275	9
AA498A	4	600	SHLD AA498	20	N			56E 45	20	N		
AA498L			56J21-230	10	N		6	56J18-L4	138	N	250	
AA498R			56J21-231	10	N		6	56E 51	20	N		
AA499	5	1400		100		75	8		300		275	9
AA499A	4	600	SHLD AA499	20	N			56E 45	20	N		
AA499L			56J21-190	10	N		6	56J18-K4	138	N	250	
AA499R			56J21-191	10	N		6	56E 51	20	N		
AA500	5	1600		100		75	9		300		275	8
AA500B	4	600	56E 27	20	N			SHLD AA500	20	N		
AA500L			56J21-104	10	N		6	56E 27	20	N		
AA500R			56J21-103	10	N		6	56J17-R3	138	N	250	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE - NONE

REV LTR H

SHEET 53

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.
AA501R	4	2500	56J21-133	10	N		6	56E 34	20	N		
AA501W	4	2500	56J21-132	10	N		6	56J13-N5	138	N		
AA502R	4	2500	56J21-100	10	N		6	56E 34	20	N		
AA502W	4	2500	56J21- 99	10	N		6	56J13-N6	138	N		
AA503	5	2900		100		75	9		300		275	8
AA503B	4	600	56E 28	20	N			SHLD AA503	20	N		
AA503L			56J21-204	10	N		6	56E 28	20	N		
AA503R			56J21-203	10	N		6	56J11-L6	138	N	250	
AA504	5	2900		100		75	9		300		275	8
AA504B	4	600	56E 28	20	N			SHLD AA504	20	N		
AA504L			56J21-242	10	N		6	56E 28	20	N		
AA504R			56J21-241	10	N		6	56J11-M6	138	N	250	
AA505	5	2700		100		75	9		300		275	8
AA505B	4	600	56TB2-V 8	138	N			SHLD AA505	20	N		
AA505L			56J22-139	10	N		6	56TB2-U 8	138	N		
AA505R			56J22-107	10	N		6	56TB2-U 7	138	N		
AA506	5	2700		100		75	9		300		275	8
AA506B	4	600	56TB2-M 8	138	N			SHLD AA506	20	N		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE - NONE

REV LTR H

SHEET 54

MIL 2085-4-64 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC ITEM NO.	NO.
AA506L			56J22-141	10	N		6		56TB2-N 8	138	N			
AA506R			56J22-142	10	N		6		56TB2-N 7	138	N			
AA507	5	1700		100		75	9			300		275	8	
AA507B	4	600	56TB3-H12	138	N				SHLD AA507	20	N			
AA507L			56J22-144	10	N		6		56TB3-C13	138	N			
AA507R			56J22-111	10	N		6		56TB3-C14	138	N			
AA508	5	1700		100		75	9			300		275	8	
AA508B	4	600	56TB3-H14	138	N				SHLD AA508	20	N			
AA508L			56J22-113	10	N		6		56TB3-N20	138	N			
AA508R			56J22-114	10	N		6		56TB3-N21	138	N			
AA509	5	1700		100		75	9			300		275	8	
AA509B	4	600	56TB3-H13	138	N				SHLD AA509	20	N			
AA509L			56J22-116	10	N		6		56TB3-D13	138	N			
AA509R			56J22-148	10	N		6		56TB3-D14	138	N			
AA510	5	1700		100		75	9			300		275	8	
AA510B	4	600	56TB3-H14	138	N				SHLD AA510	20	N			
AA510L			56J22-150	10	N		6		56TB3-F13	138	N			
AA510R			56J22-151	10	N		6		56TB3-F14	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 55

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC ITEM NO.	NO.
AA511	4	600	56TB1-S 2	138	N				56TB1-T 2	138	N			
AA512	4	600	56TB1-R 2	138	N				56TB1-S 2	138	N			
AA513	4	600	56TB3-H12	138	N				56TB3-H13	138	N			
AA514	4	600	56TB3-B15	138	N				56TB3-C15	138	N			
AA515	4	600	56TB3-M20	138	N				56TB3-C18	138	N			
AA517R	4	1700	56TB3-B19	138	N				56J22-120	10	N		6	
AA517W	4	1700	56TB3-B18	138	N				56J22-153	10	N		6	
AA518	4	1700	56TB3-F 4	138	N				56J22-190	10	N		6	
AA521	4	1700	56TB3-L19	138	N				56J21- 62	10	N		6	
AA522	4	1700	56TB3-N19	138	N				56J21- 63	10	N		6	
AA525	4	1700	56TB3-M19	138	N				56J21- 96	10	N		6	
AA526	4	1700	56TB3-D19	138	N				56J21-129	10	N		6	
AA529	4	1700	56TB3-F19	138	N				56J21-162	10	N		6	
AA530	4	1700	56TB3-G19	138	N				56J21-196	10	N		6	
AA533	4	600	56TB3-L15	138	N				56TB3-M15	138	N			
AA534	4	600	56TB3-M15	138	N				56TB3-N15	138	N			
AA535	4	600	56TB3-N15	138	N				56TB3-R15	138	N			
AA536	4	600	56TB3-S15	138	N				56TB3-T15	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 56

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC ITEM NO.	NO.
AA538	4	600	56TB3-G 9	138	N				56TB3-B15	138	N			
AA539	4	600	56TB2-M 8	138	N				56TB2-M 7	138	N			
AA540	4	600	56TB2-V 2	138	N				56TB2-V 3	138	N			
AA541	4	600	56TB3-G 9	138	N				56TB3-H 9	138	N			
AA542	4	600	56TB3-H 9	138	N				56TB3-K 9	138	N			
AA543	4	600	56TB3-K 9	138	N				56TB3-L 9	138	N			
AA544	4	600	56TB3-L 9	138	N				56TB3-M 9	138	N			
AA545	4	600	56TB3-M 9	138	N				56TB3-N 9	138	N			
AA546	4	600	56TB3-N 9	138	N				56TB3-R 9	138	N			
AA547	4	600	56TB3-R 9	138	N				56TB3-S 9	138	N			
AA548	4	600	56TB3-S 9	138	N				56TB3-T 9	138	N			
AA549	4	600	56TB3-T 9	138	N				56TB3-T15	138	N			
AA550	4	600	56TB3-G15	138	N				56TB3-H15	138	N			
AA551	4	600	56TB3-H15	138	N				56TB3-K15	138	N			
AA552	4	600	56TB3-K15	138	N				56TB3-L15	138	N			
AA553	4	600	56TB3-R15	138	N				56TB3-S15	138	N			
AA554	4	600	56TB3-H13	138	N				56TB3-H14	138	N			
AA555	4	600	56TB2-K 4	138	N				56TB2-L 4	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 57

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC ITEM NO.	NO.
AA556	4	600	56TB2-L 2	138	N				56TB2-L 1	138	N			
AA557	4	600	56TB2-K 2	138	N				56TB2-K 1	138	N			
AA558	4	600	56TB3-M20	138	N				56TB3-C19	138	N			
AA559	4	600	56TB3-T20	138	N				56TB3-T21	138	N			
AA560	4	600	56TB3-S[illegible]	138	N				56TB3-T21	138	N			
AA562	4	600	56J21- 5[illegible]	10	N		6		56E 57	20	N			
AA563	4	600	56TB3-L21	138	N				56TB3-D15	138	N			
AA566	4	600	56TB3-K21	138	N				56TB3-C15	138	N			
AA568	4	600	56E 45	20	N				56E 46	20	N			
AA569	5	1700		300		275	8			225		200	9	
AA569A	4	600	SHLD AA569	20	N				56TB2-D 3	138	N			
AA569L			56TB2-D 2	138	N				56J16-B7	88	N	175		
AA569R			56TB2-F 3	138	N				56E 60	20	N			
AA571	5	1900		300		275	8			225		200	9	
AA571A	4	600	SHLD AA571	20	N				56TB2-S 3	138	N			
AA571L			56TB2-N 3	138	N				56J17-A2	88	N			
AA571R			56TB2-R 3	138	N				56J17-B2	88	N			
AA572	4	600	56TB1-D 7	138	N				56TB1-D 8	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR H
SHEET 58

MIL 2085-4-64 WIR

INCHES
0 1 2

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM T I N	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO T I N	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.
AA577	4	600	56TB2-D 7	138	N				56TB2-D 8	138	N			
AA578	4	600	56TB2-S 2	138	N				56TB2-R 2	138	N			
AA579	4	600	56TB2-F 7	138	N				56TB2-G 7	138	N			
AA580	4	600	56TB2-F 2	138	N				56TB2-G 2	138	N			
AA581	4	600	56TB2-M 1	138	N				56TB2-M 2	138	N			
AA582	4	600	56TB2-M 2	138	N				56TB2-M 3	138	N			
AA583	4	600	56TB2-M 3	138	N				56TB2-M 4	138	N			
AA584	4	600	56TB2-M 4	138	N				56TB2-M 5	138	N			
AA585	4	600	56TB2-M 5	138	N				56TB2-M 6	138	N			
AA586	4	600	56TB2-M 6	138	N				56TB2-M 7	138	N			
AA587	4	600	56TB1-D 8	138	N				56TB1-N 8	138	N			
AA588	4	600	56TB1-N 4	138	N				56TB1-S 8	138	N			
AA589	4	1000	56TB1-N 4	138	N				56TB2-M 5	138	N			
AA590	4	1000	56TB1-D 7	138	N				56TB2-V 2	138	N			
AA591	4	1000	56TB1-S 3	138	N				56TB2-M 4	138	N			
AA592	4	2200	56TB2-M 6	138	N				56TB3-T 3	138	N			
AA596	4	600	56TB2-V 3	138	N				56TB2-V 4	138	N			
AA597	4	600	56TB2-V 4	138	N				56TB2-V 5	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE - NONE	REV LTR	H	SHEET 59

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM T I N	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO T I N	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.
AA598	4	600	56TB2-V 5	138	N				56TB2-V 6	138	N			
AA599	4	600	56TB2-V 6	138	N				56TB2-V 8	138	N			
AA600	4	600	56TB1-S 8	138	N				56TB1-S 7	138	N			
AA601	4	600	56TB1-S 7	138	N				56TB1-S 6	138	N			
AA602	4	1000	56TB1-S 7	138	N				56TB2-D 8	138	N			
AA603	4	600	56TB2-D 7	138	N				56TB2-D 6	138	N			
AA604	4	600	56TB2-D 6	138	N				56TB2-D 5	138	N			
AA605	4	600	56TB2-D 5	138	N				56TB2-D 4	138	N			
AA607	4	600	56TB3-F22	138	N				56TB3-F21	138	N			
AA608	4	1800	56TB2-D 4	138	N				56E 27	20	N			
AA609	4	600	56TB3-C15	138	N				56TB3-D15	138	N			
AA610	4	900	56J11-N3	138	N				56J12-P4	138	N			
AA611	4	600	56TB1-R 1	138	N				56TB1-S 1	138	N			
AA612	4	600	56TB1-S 1	138	N				56TB1-T 1	138	N			
AA613	4	600	56TB3-B20	138	N				56TB3-B21	138	N			
AA614	4	600	56TB3-B21	138	N				56TB3-F21	138	N			
AA615	4	600	56TB2-R 3	138	N				56TB2-S 3	138	N			
AA616	4	900	56J18-R4	138	N				56J19-M4	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE - NONE	REV LTR	H	SHEET 60

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM T I N	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO T I N	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.
AA617	4	900	56J11-L4	138	N				56E 66	20	N		12	
AA618	4	900	56J11-L4	138	N				56E 67	20	N		12	
AA619	4	400	56TB3-B20	138	N				56E 68	20	N		12	
AA620	4	600	56TB3-B20	138	N				56E 69	20	N		12	
AA621	4	600	56TB2-T 2	138	N				56TB2-T 3	138	N			
AA622	4	1700	56J20-R1	138	N				56TB3-C20	138	N			
AA623	4	1700	56J20-P1	138	N				56TB3-C21	138	N			
AA624	4	1700	56J20-R2	138	N				56TB3-D20	138	N			
AA625	4	1700	56J20-P2	138	N				56TB3-D21	138	N			
AA626	4	1700	56J20-S3	138	N				56TB3-D22	138	N			
AA627	4	1700	56J20-S4	138	N				56TB3-C22	138	N			
AA628	4	1700	56J20-R5	138	N				56TB3-H21	138	N			
AA629	4	1700	56J20-R6	138	N				56TB3-H22	138	N			
AA630	4	600	56TB3-D15	138	N				56TB3-G15	138	N			
AA631	4	600	56TB3-R 3	138	N				56TB3-S 3	138	N			
AA632	4	600	56TB1-S 3	138	N				56TB1-S 4	138	N			
AA633	4	600	56TB1-S 4	138	N				56TB1-S 5	138	N			
AA634	4	600	56TB1-S 5	138	N				56TB1-S 6	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE - NONE	REV LTR	H	SHEET 61

MIL 2085-4-64 WIR

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM T I N	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO T I N	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.
AA635	4	600	56TB3-T 3	138	N				56TB2-V 8	138	N			
AA636	4	1200	56J17-F2	138	N				56TB3-D 6	138	N			
AA637	4	1200	56J15-R2	138	N				56TB2-F 4	138	N			
AA638	4	600	56J18-T5	138	N				56E 71	20	N			
AA639	5	2700		300		275	9			100		75	8	
AA639B	4	600	56E 70	20	N				SHLD AA639	20	N			
AA639L			56J12-D6	138	N				56J21- 28	10	N		6	
AA639R			56J12-F6	138	N				56J21- 29	10	N		6	
AA640	5	2700		300		275	9			100		75	8	
AA640B	4	600	56E 70	20	N				SHLD AA640	20	N			
AA640L			56J12-D5	138	N				56J21-158	10	N		6	
AA640R			56J12-F5	138	N				56J21-159	10	N		6	
AA641	5	2700		300		275	9			100		75	8	
AA641B	4	600	56E 70	20	N				SHLD AA641	20	N			
AA641L			56J12-D4	138	N				56J21- 60	10	N		6	
AA641R			56J12-F4	138	N				56J21- 61	10	N		6	
AA642	4	600	56J21- 22	10	N		6		56E 70	20	N			
AA643	4	400	56J12-N6	138	N				56J12-R6	138	N			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE - NONE	REV LTR	H	SHEET 62

MIL 2085-4-64 WIR

INCHES
0 1
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR			FROM						TO						
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	
AA644	4	400	56J12-P5	138	N				56J12-R3	138	N				
AA645	4	600	56TB2-U 1	138	N				56TB2-U 3	138	N				
AA646	4	1700	56J18-T1	138	N				56TB3-A10	138	N				
AA647	4	1700	56J22-172	10	N		6		56TB3-F 2	138	N				

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE - NONE	REV LTR	H	SHEET 63

MIL 2068-4-64 WIR

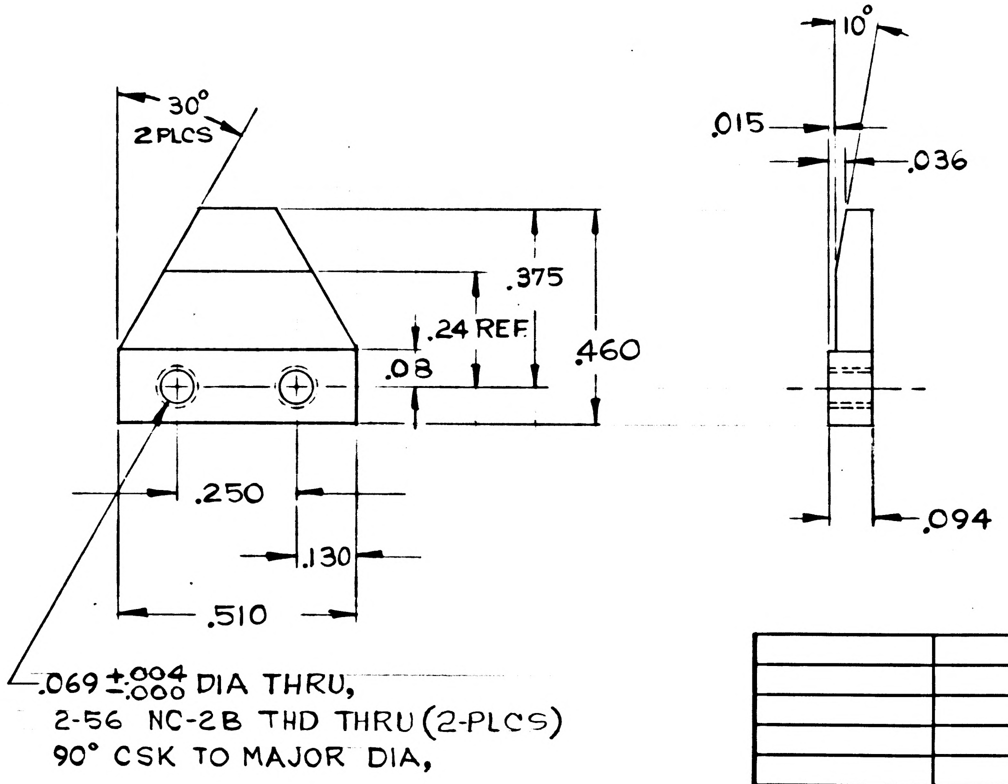
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTES:

1. INTERPRET DWG. IN ACCORDANCE WITH STD PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-S-763, CL 303 OR 303SE COND A, CF (ES-380).
3. FINISH: MIL-F-14072 (SIG C), FIN E300 (ES-585).
4. UNLESS OTHERWISE SPECIFIED:
   - a. ALL CORNERS TO BE .005 TO .015 RAD. OR CHAMFER.
   - b. SURFACE ROUGHNESS MUST NOT EXCEED 63/.
   - c. REMOVE ALL BURRS.
5. IDENTIFY USING DWG NO. AND REV. LETTER PER ND 1002019.

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		INITIAL CLASS A RELEASE TDRR NO. 13814			
A	D-4	REVISED PER TDRR 14357		24 Nov 64	RJJ



30° 2 PLCS
.375
.24 REF
.08
.460
.250
.130
.510
.069 +.004 -.000 DIA THRU,
2-56 NC-2B THD THRU (2-PLCS)
90° CSK TO MAJOR DIA,
10°
.015
.036
.094

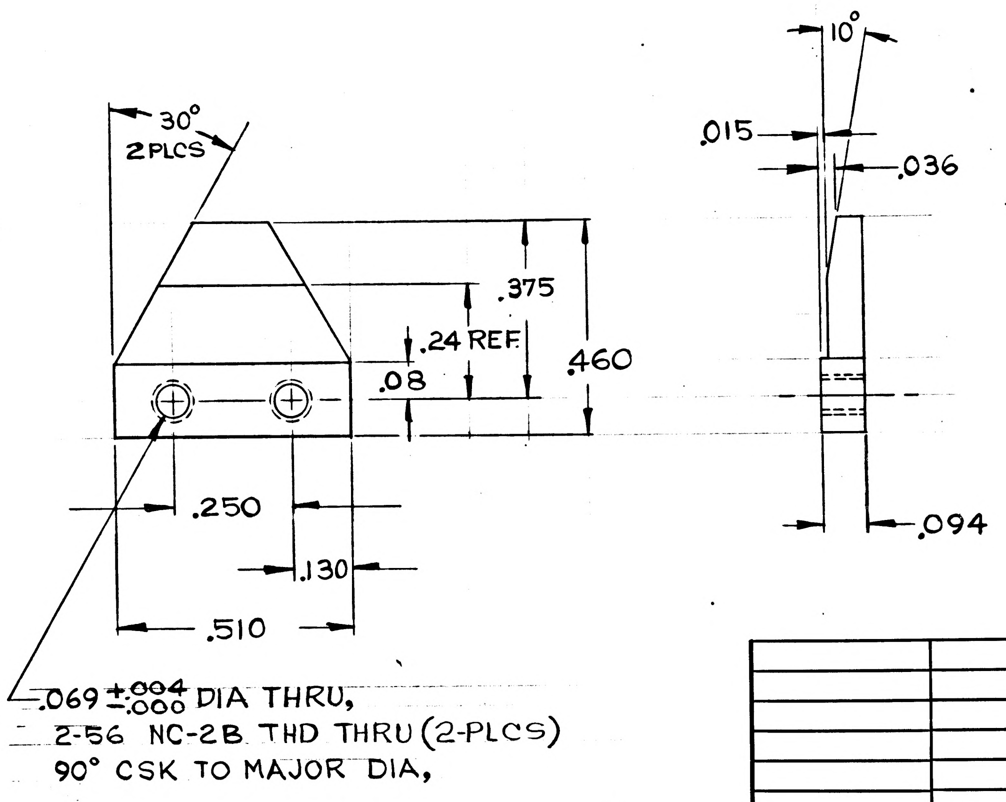
1015048-011	1015048-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON .XX DEC ±.02 .XXX DEC ±.005 ANGLES ±1° DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN DATE CHECKED E. Mertz 10-8-64 APPROVAL 10/20/64 APPROVAL	MANNED SPACECRAFT CENTER HOUSTON, TEXAS STOP BLOCK
NEXT ASSY	USED ON	MATERIAL SEE NOTE 2	NASA APPROVAL 10-20-64	CODE IDENT NO. SIZE C 1014615
APPLICATION		CONTRACT NAS9-497	MIT APPROVAL	SCALE 4/1 SHEET 1 OF 1

MIL 1077C-P

NOTES:

1. INTERPRET DWG. IN ACCORDANCE WITH STD PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-S-763, CL 302 OR 304, COND A, CF (ES-376).
3. FINISH: MIL-F-14072 (SIG C), FIN E300 (ES-585).
4. UNLESS OTHERWISE SPECIFIED:
   a. ALL CORNERS TO BE .005 TO .015 RAD. OR CHAMFER.
   b. SURFACE ROUGHNESS MUST NOT EXCEED 63/.
   c. REMOVE ALL BURRS.
5. IDENTIFY USING DWG NO. AND REV. LETTER PER ND 1002019.

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		INITIAL CLASS A RELEASE TDRR NO. 13814			


30°
2 PLCS
.375
.24 REF
.460
.08
.250
.130
.510
10°
.015
.036
.094
.069 +.004 -.000 DIA THRU,
2-56 NC-2B THD THRU (2-PLCS)
90° CSK TO MAJOR DIA,

1015048-011	1015048-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON .XX DEC ± .02 .XXX DEC ± .005 ANGLES ± 1°	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
NEXT ASSY	USED ON	DO NOT SCALE THIS DRAWING	DRAWN J. Bartlett DATE 9 Oct 64 CHECKED E. Mertz 10-8-64 APPROVAL J. F. Hines 10/20/64 APPROVAL	STOP BLOCK		
APPLICATION		MATERIAL SEE NOTE 2	NASA APPROVAL W. J. Rhine 10-20-64	CODE IDENT NO.	SIZE C	1014615
		CONTRACT NAS9-497	MIT APPROVAL 10/26/64	SCALE 4/1		SHEET 1 OF 1

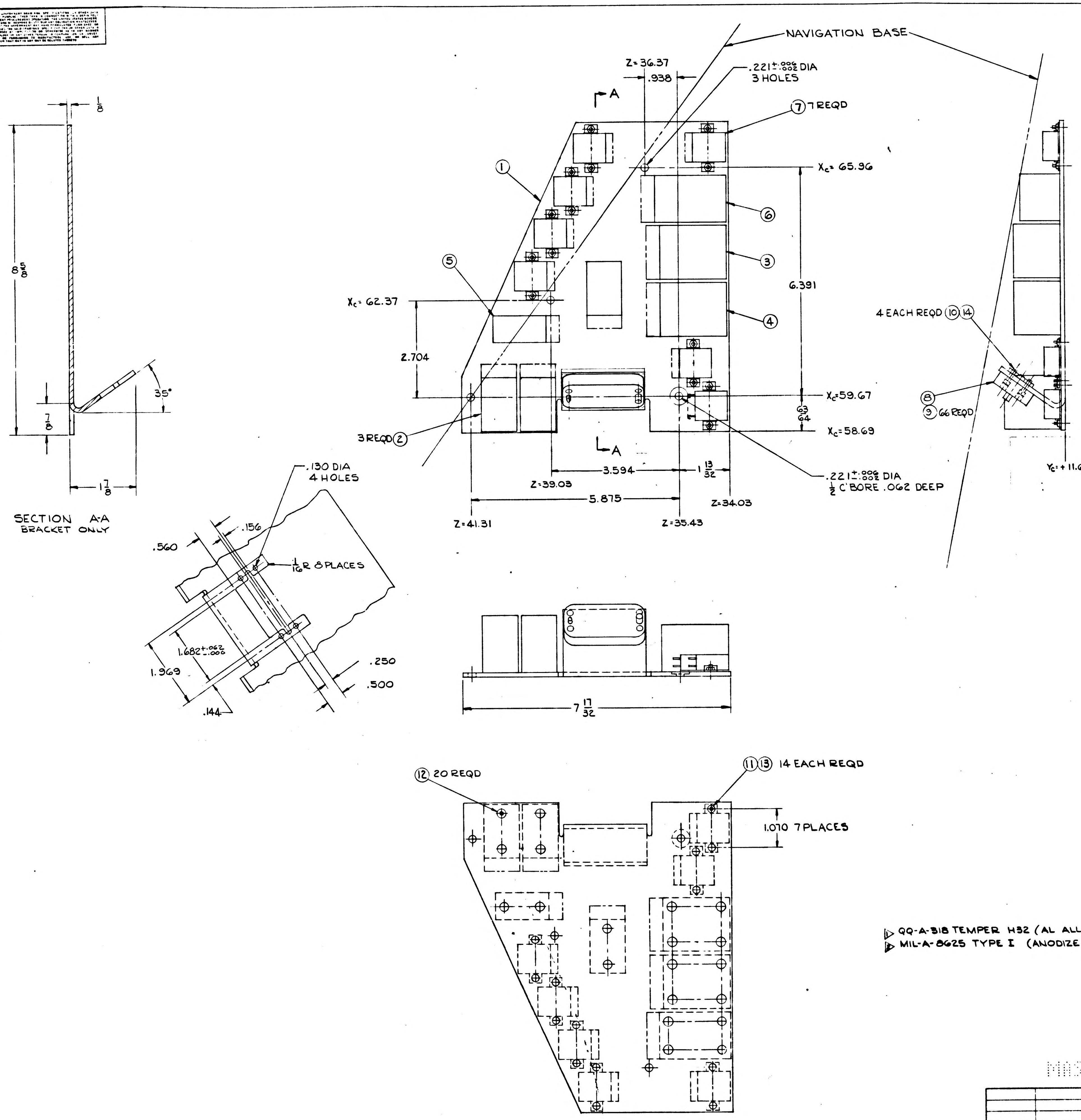
MIL 1077C—P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE -- WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014620 A

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	COMPLETELY REVISED AND REDRAWN	1/30/63	


NAVIGATION BASE
Z=36.37
.938
.221 +.002 -.002 DIA
3 HOLES
A
⑦ 7 REQD
①
Xc= 65.96
⑥
③
⑤
6.391
Xc= 62.37
④
2.704
4 EACH REQD ⑩ ⑭
Xc=59.67
63/64
⑧
⑨ 66 REQD
3 REQD ②
Xc=58.69
A
Yc= + 11.69
3.594
1 13/32
.221 +.002 -.002 DIA
1/2 C'BORE .062 DEEP
Z=39.03
5.875
Z=34.03
Z=41.31
Z=35.43
1/8
8 5/8
35°
7/8
1 1/8
SECTION A-A
BRACKET ONLY
.130 DIA
4 HOLES
.560
.156
1/16 R 8 PLACES
1.682 +.062 -.000
1.969
.250
.500
.144
7 17/32
⑫ 20 REQD
⑪⑬ 14 EACH REQD
1.070 7 PLACES

① QQ-A-318 TEMPER H32 (AL ALLOY)
② MIL-A-8625 TYPE I (ANODIZE)

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00322 DATE 6 FEB 63

MASTER

4		NUT-HEX #4-40NC-3B ACSK PT NO. 8599166-004	14
14		NUT-HEX #2-56NC-3B ACSK PT NO. 8599166-002	13
20	1000104-14	SCREW-FLAT HD	12
14	1000104-3	SCREW-FLAT HD	11
4		SCREW-CAP	10
66		CONNECTOR PLUG CONTACT ACSK PT NO 8597693-622	9
1		CONNECTOR PLUG ACSK PT NO. 8597683-60	8
7		RELAY	7
1		TIME DELAY ASSY	6
1		DIODE MODULE	5
1		COMPUTER DISPLAY BRIGHTNESS ASSY	4
1		PANEL BRIGHTNESS ASSY	3
3		ATTITUDE ERROR DEMODULATOR	2
1		BRACKET ① ②	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

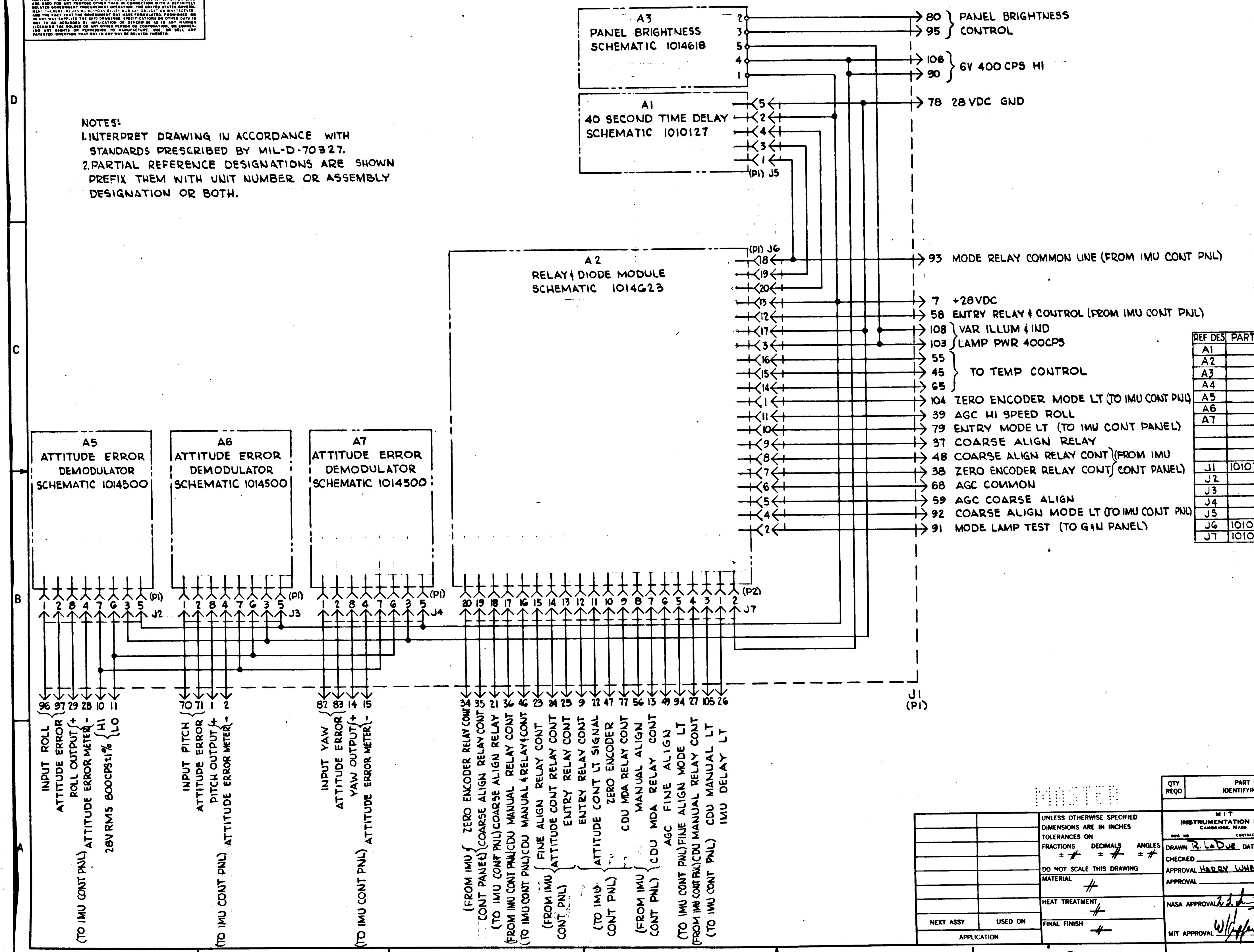
NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ±.005 ANGLES ± 2° DO NOT SCALE THIS DRAWING	MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. DWG NO CONTRACT	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION		MATERIAL SEE LIST OF MATL	DRAWN LaLima DATE 12-26-62 CHECKED APPROVAL H. WHEELER APPROVAL	CONTROL ELECTRONICS ASSY
		HEAT TREATMENT	NASA APPROVAL	CODE IDENT NO / SIZE E / NASA DRAWING NO. 1014620
		FINAL FINISH SEE LIST OF MATL	MIT APPROVAL W Kupfer 6 Feb 63	SCALE FULL / WT / SHEET OF

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	Ⓐ COMPLETELY REVISED & REDRAWN TDRR 00791	9 APRIL 63	RL WK

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.


A3
PANEL BRIGHTNESS SCHEMATIC 1014618
2 3 5 4 1
A1
40 SECOND TIME DELAY SCHEMATIC 1010127
5 2 4 3 1
(P1) J5
80 } PANEL BRIGHTNESS
95 } CONTROL
106 } 6V 400 CPS HI
90
78 28 VDC GND
A2
RELAY & DIODE MODULE SCHEMATIC 1014623
(P1) J6
18 19 20 13 12 17 3 16 15 14 1 11 10 9 8 7 6 5 4 2
93 MODE RELAY COMMON LINE (FROM IMU CONT PNL)
7 +28VDC
58 ENTRY RELAY & CONTROL (FROM IMU CONT PNL)
108 } VAR ILLUM & IND
103 } LAMP PWR 400CPS
55
45 } TO TEMP CONTROL
65
104 ZERO ENCODER MODE LT (TO IMU CONT PNL)
39 AGC HI SPEED ROLL
79 ENTRY MODE LT (TO IMU CONT PANEL)
37 COARSE ALIGN RELAY
48 COARSE ALIGN RELAY CONT } (FROM IMU
38 ZERO ENCODER RELAY CONT } CONT PANEL)
68 AGC COMMON
59 AGC COARSE ALIGN
92 COARSE ALIGN MODE LT (TO IMU CONT PNL)
91 MODE LAMP TEST (TO G&N PANEL)
A5
ATTITUDE ERROR DEMODULATOR SCHEMATIC 1014500
A6
ATTITUDE ERROR DEMODULATOR SCHEMATIC 1014500
A7
ATTITUDE ERROR DEMODULATOR SCHEMATIC 1014500
1 2 8 4 7 6 3 5 (P1) J2
1 2 8 4 7 6 3 5 (P1) J3
1 2 8 4 7 6 3 5 (P1) J4
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 1 2 (P2) J7
J1 (P1)
96 97 29 28 10 11
INPUT ROLL ATTITUDE ERROR
(TO IMU CONT PNL) ROLL OUTPUT + ATTITUDE ERROR METER -
28V RMS 800CPS±1% HI LO
70 71 1 2
INPUT PITCH ATTITUDE ERROR
(TO IMU CONT PNL) PITCH OUTPUT + ATTITUDE ERROR METER -
82 83 14 15
INPUT YAW ATTITUDE ERROR
(TO IMU CONT PNL) YAW OUTPUT + ATTITUDE ERROR METER -
34 35 21 36 46 23 24 25 9 22 47 77 56 13 49 94 27 105 26
(FROM IMU CONT PANEL) ZERO ENCODER RELAY CONT
COARSE ALIGN RELAY CONT
(TO IMU CONT PNL) COARSE ALIGN RELAY
(FROM IMU CONT PNL) CDU MANUAL RELAY CONT
(TO IMU CONT PNL) CDU MANUAL & RELAY & CONT
(FROM IMU CONT PNL) FINE ALIGN RELAY CONT
ATTITUDE CONT RELAY CONT
ENTRY RELAY CONT
ENTRY RELAY CONT
(TO IMU CONT PNL) ATTITUDE CONT LT SIGNAL
ZERO ENCODER
CDU MDA RELAY CONT
(FROM IMU CONT PNL) MANUAL ALIGN
CDU MDA RELAY CONT
AGC FINE ALIGN
(TO IMU CONT PNL) FINE ALIGN MODE LT
(FROM IMU CONT PNL) CDU MANUAL RELAY CONT
(TO IMU CONT PNL) CDU MANUAL LT
IMU DELAY LT

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00649 DATE 27 Mar 63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1		40 SEC TIME DELAY			
A2		RELAY & DIODE MODULE			
A3		PANEL BRIGHTNESS			
A4					
A5		ATTITUDE ERROR DEM			
A6		↓			
A7		↓			
J1	1010318-1	CONNECTOR-			
J2	↓	↓			
J3					
J4					
J5	↓				
J6	1010318-3				
J7	1010318-3	↓			

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO CONTRACT
DRAWN R. LaDue DATE 25 MAR 63
CHECKED
APPROVAL HARRY WHEELER
APPROVAL
NASA APPROVAL
MIT APPROVAL 10 Apr 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

D&C ELECTRONICS
SCHEMATIC DIAGRAM

CODE IDENT NO. SIZE D NASA DRAWING NO. 1014622
SCALE # WT SHEET OF

1014622 B

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

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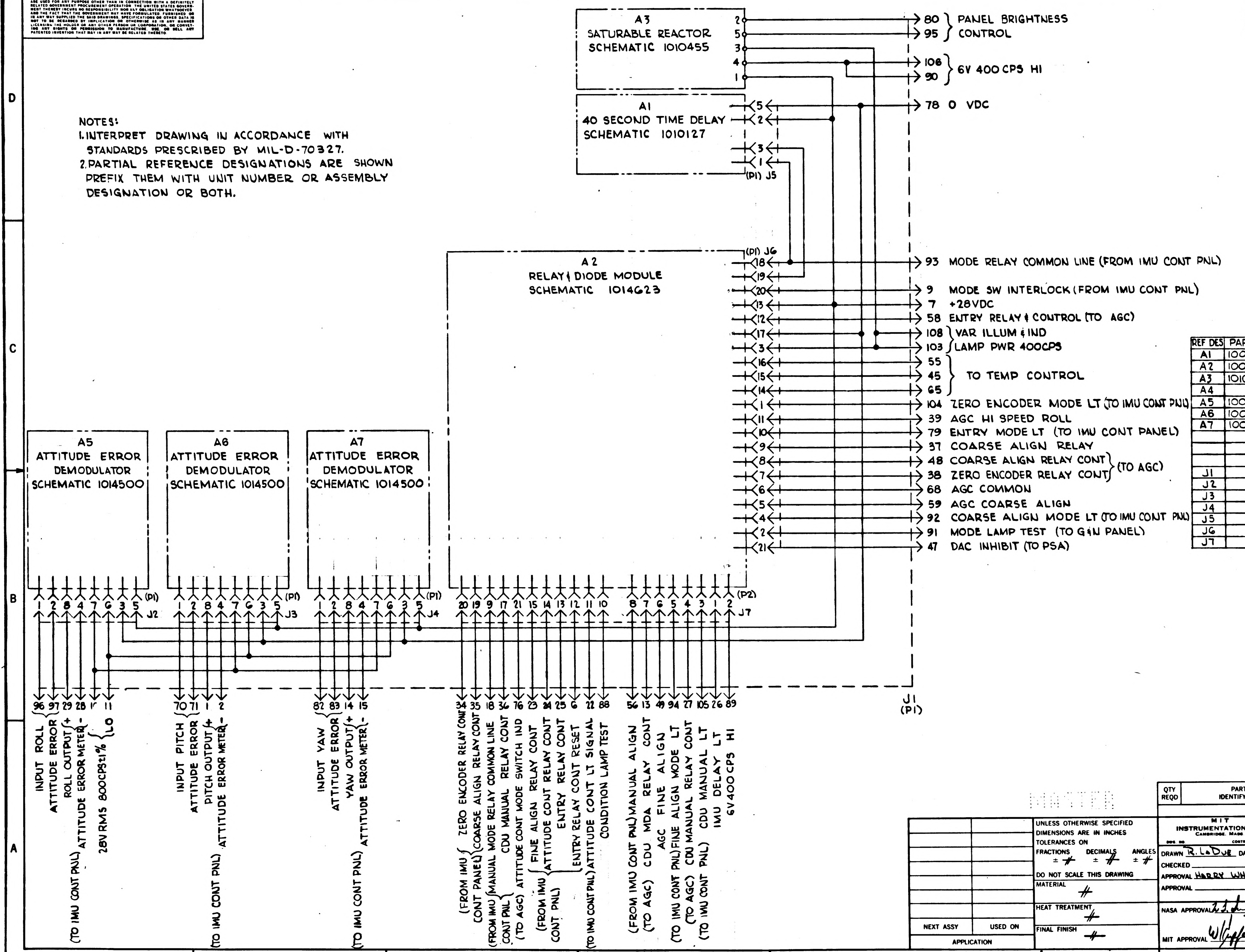
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B,	(B1) COMPLETELY REVISED & REDRAWN TDRR 00791	9 APRIL 63	RL WK
C3	(C1) REVISED J1 & J7 (C2) A3-5 & A3-3 INTERCHANGED (C3) ADDED P/N'S TDRR 01348	21 MAY 63	WK

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.


A3
SATURABLE REACTOR
SCHEMATIC 1010455
A1
40 SECOND TIME DELAY
SCHEMATIC 1010127
(P1) J5
A2
RELAY & DIODE MODULE
SCHEMATIC 1014623
(P1) J6
A5
ATTITUDE ERROR
DEMODULATOR
SCHEMATIC 1014500
A6
ATTITUDE ERROR
DEMODULATOR
SCHEMATIC 1014500
A7
ATTITUDE ERROR
DEMODULATOR
SCHEMATIC 1014500
(P1) J2
(P1) J3
(P1) J4
(P2) J7
J1 (P1)
80 } PANEL BRIGHTNESS
95 } CONTROL
106 } 6V 400 CPS HI
90
78 0 VDC
93 MODE RELAY COMMON LINE (FROM IMU CONT PNL)
9 MODE SW INTERLOCK (FROM IMU CONT PNL)
7 +28VDC
58 ENTRY RELAY & CONTROL (TO AGC)
108 } VAR ILLUM & IND
103 } LAMP PWR 400CPS
55
45 } TO TEMP CONTROL
65
104 ZERO ENCODER MODE LT (TO IMU CONT PNL)
39 AGC HI SPEED ROLL
79 ENTRY MODE LT (TO IMU CONT PANEL)
37 COARSE ALIGN RELAY
48 COARSE ALIGN RELAY CONT
38 ZERO ENCODER RELAY CONT } (TO AGC)
68 AGC COMMON
59 AGC COARSE ALIGN
92 COARSE ALIGN MODE LT (TO IMU CONT PNL)
91 MODE LAMP TEST (TO G&N PANEL)
47 DAC INHIBIT (TO PSA)
96 97 29 28 10 11
INPUT ROLL ATTITUDE ERROR
ROLL OUTPUT + - (TO IMU CONT PNL) ATTITUDE ERROR METER
28V RMS 800CPS±1% LO
70 71 1 2
INPUT PITCH ATTITUDE ERROR
PITCH OUTPUT + - (TO IMU CONT PNL) ATTITUDE ERROR METER
82 83 14 15
INPUT YAW ATTITUDE ERROR
YAW OUTPUT + - (TO IMU CONT PNL) ATTITUDE ERROR METER
34 35 18 36 76 23 24 25 6 22 88
(FROM IMU CONT PANEL) ZERO ENCODER RELAY CONT
COARSE ALIGN RELAY CONT
(FROM IMU CONT PNL) MANUAL MODE RELAY COMMON LINE
CDU MANUAL RELAY CONT
(TO AGC) ATTITUDE CONT MODE SWITCH IND
(FROM IMU CONT PNL) FINE ALIGN RELAY CONT
ATTITUDE CONT RELAY CONT
ENTRY RELAY CONT
ENTRY RELAY CONT RESET
(TO IMU CONT PNL) ATTITUDE CONT LT SIGNAL
CONDITION LAMP TEST
56 13 49 94 27 105 26 89
(FROM IMU CONT PNL) MANUAL ALIGN
(TO AGC) CDU MDA RELAY CONT
AGC FINE ALIGN
(TO IMU CONT PNL) FINE ALIGN MODE LT
(TO AGC) CDU MANUAL RELAY CONT
(TO IMU CONT PNL) CDU MANUAL LT
IMU DELAY LT
6V400CPS HI

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00649 **DATE** 27 Mar 63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1007033	40 SEC TIME DELAY			
A2	1007036	RELAY & DIODE MODULE			
A3	1010455	SATURABLE REACTOR			
A4					
A5	1007034	ATTITUDE ERROR DEM			
A6	1007034				
A7	1007034				
J1		CONNECTOR-			
J2					
J3					
J4					
J5					
J6					
J7					

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R. LaDue DATE 25 MAR 63
CHECKED
APPROVAL HARRY WHEELER
APPROVAL
NASA APPROVAL
MIT APPROVAL 10 Apr 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

D&C ELECTRONICS
SCHEMATIC DIAGRAM

CODE IDENT NO. SIZE D NASA DRAWING NO. 1014622
SCALE # WT SHEET OF

1014622 C

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

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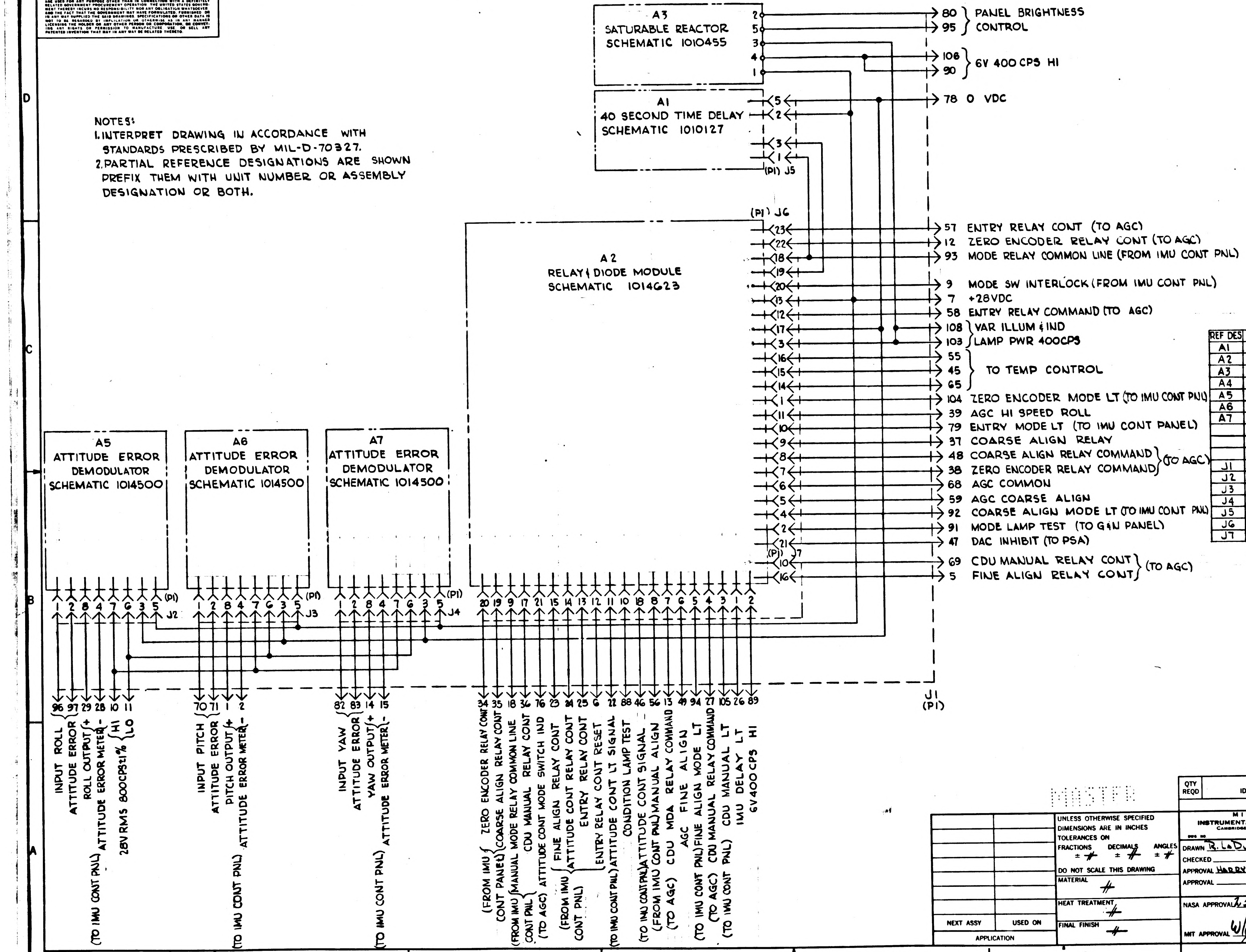
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	(B1) COMPLETELY REVISED & REDRAWN TDRR 00791	9 APRIL 63	RL WK
C3	(C1) REVISED J1 & J7 (C2) A3-5 & A3-3 INTERCHANGED (C3) ADDED P/N'S TDRR 01348	21 MAY 63	WK
D1	(D1) ADDED J1-5,12,46,57,69 TDRR 01384	28 MAY 63	WK

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.


A3
SATURABLE REACTOR
SCHEMATIC 1010455
2 5 3 4 1
80 } PANEL BRIGHTNESS
95 } CONTROL
106 } 6V 400 CPS HI
90
A1
40 SECOND TIME DELAY
SCHEMATIC 1010127
5 2 3 1
(P1) J5
78 0 VDC
(P1) J6
A2
RELAY & DIODE MODULE
SCHEMATIC 1014623
23 22 18 19 20 13 12 17 3 16 15 14 11 10 9 8 7 6 5 4 2 21
57 ENTRY RELAY CONT (TO AGC)
12 ZERO ENCODER RELAY CONT (TO AGC)
93 MODE RELAY COMMON LINE (FROM IMU CONT PNL)
9 MODE SW INTERLOCK (FROM IMU CONT PNL)
7 +28VDC
58 ENTRY RELAY COMMAND (TO AGC)
108 } VAR ILLUM & IND
103 } LAMP PWR 400CPS
55
45 } TO TEMP CONTROL
65
104 ZERO ENCODER MODE LT (TO IMU CONT PNL)
39 AGC HI SPEED ROLL
79 ENTRY MODE LT (TO IMU CONT PANEL)
37 COARSE ALIGN RELAY
48 COARSE ALIGN RELAY COMMAND } (TO AGC)
38 ZERO ENCODER RELAY COMMAND
68 AGC COMMON
59 AGC COARSE ALIGN
92 COARSE ALIGN MODE LT (TO IMU CONT PNL)
91 MODE LAMP TEST (TO G&N PANEL)
47 DAC INHIBIT (TO PSA)
(P1) J7 10 16
69 CDU MANUAL RELAY CONT } (TO AGC)
5 FINE ALIGN RELAY CONT
A5
ATTITUDE ERROR
DEMODULATOR
SCHEMATIC 1014500
A6
ATTITUDE ERROR
DEMODULATOR
SCHEMATIC 1014500
A7
ATTITUDE ERROR
DEMODULATOR
SCHEMATIC 1014500
1 2 8 4 7 6 3 5 (P1) J2
1 2 8 4 7 6 3 5 (P1) J3
1 2 8 4 7 6 3 5 (P1) J4
20 19 9 17 21 15 14 13 12 11 10 18 8 7 6 5 4 3 1 2
J1 (P1)
96 97 29 28 10 11
INPUT ROLL ATTITUDE ERROR
(TO IMU CONT PNL) ROLL OUTPUT + ATTITUDE ERROR METER -
28VRMS 800CPS±1% HI LO
70 71 1 2
INPUT PITCH ATTITUDE ERROR
(TO IMU CONT PNL) PITCH OUTPUT + ATTITUDE ERROR METER -
82 83 14 15
INPUT YAW ATTITUDE ERROR
(TO IMU CONT PNL) YAW OUTPUT + ATTITUDE ERROR METER -
34 35 18 36 76 23 24 25 6 22 88 46 56 13 49 94 27 105 26 89
(FROM IMU CONT PANEL) ZERO ENCODER RELAY CONT
COARSE ALIGN RELAY CONT
(FROM IMU CONT PNL) MANUAL MODE RELAY COMMON LINE
CDU MANUAL RELAY CONT
(TO AGC) ATTITUDE CONT MODE SWITCH IND
(FROM IMU CONT PNL) FINE ALIGN RELAY CONT
ATTITUDE CONT RELAY CONT
ENTRY RELAY CONT
ENTRY RELAY CONT RESET
(TO IMU CONT PNL) ATTITUDE CONT LT SIGNAL
CONDITION LAMP TEST
(TO IMU CONT PNL) ATTITUDE CONT SIGNAL
(FROM IMU CONT PNL) MANUAL ALIGN
(TO AGC) CDU MDA RELAY COMMAND
AGC FINE ALIGN
(TO IMU CONT PNL) FINE ALIGN MODE LT
(TO AGC) CDU MANUAL RELAY COMMAND
(TO IMU CONT PNL) CDU MANUAL LT
IMU DELAY LT
6V400CPS HI

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00649 DATE 27 Mar 63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1007033	40 SEC TIME DELAY			
A2	1007036	RELAY & DIODE MODULE			
A3	1010455	SATURABLE REACTOR			
A4					
A5	1007034	ATTITUDE ERROR DEM			
A6	1007034	↓			
A7	1007034	↓			
J1		CONNECTOR-			
J2		↓			
J3		↓			
J4		↓			
J5		↓			
J6		↓			
J7		↓			

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
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FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

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DRAWN R. LaDue DATE 25 MAR 63
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APPROVAL HARRY WHEELER
APPROVAL
NASA APPROVAL
MIT APPROVAL 10 Apr 63

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D&C ELECTRONICS
SCHEMATIC DIAGRAM

CODE IDENT NO. SIZE D NASA DRAWING NO. 1014622
SCALE # WT SHEET OF

1014622 D

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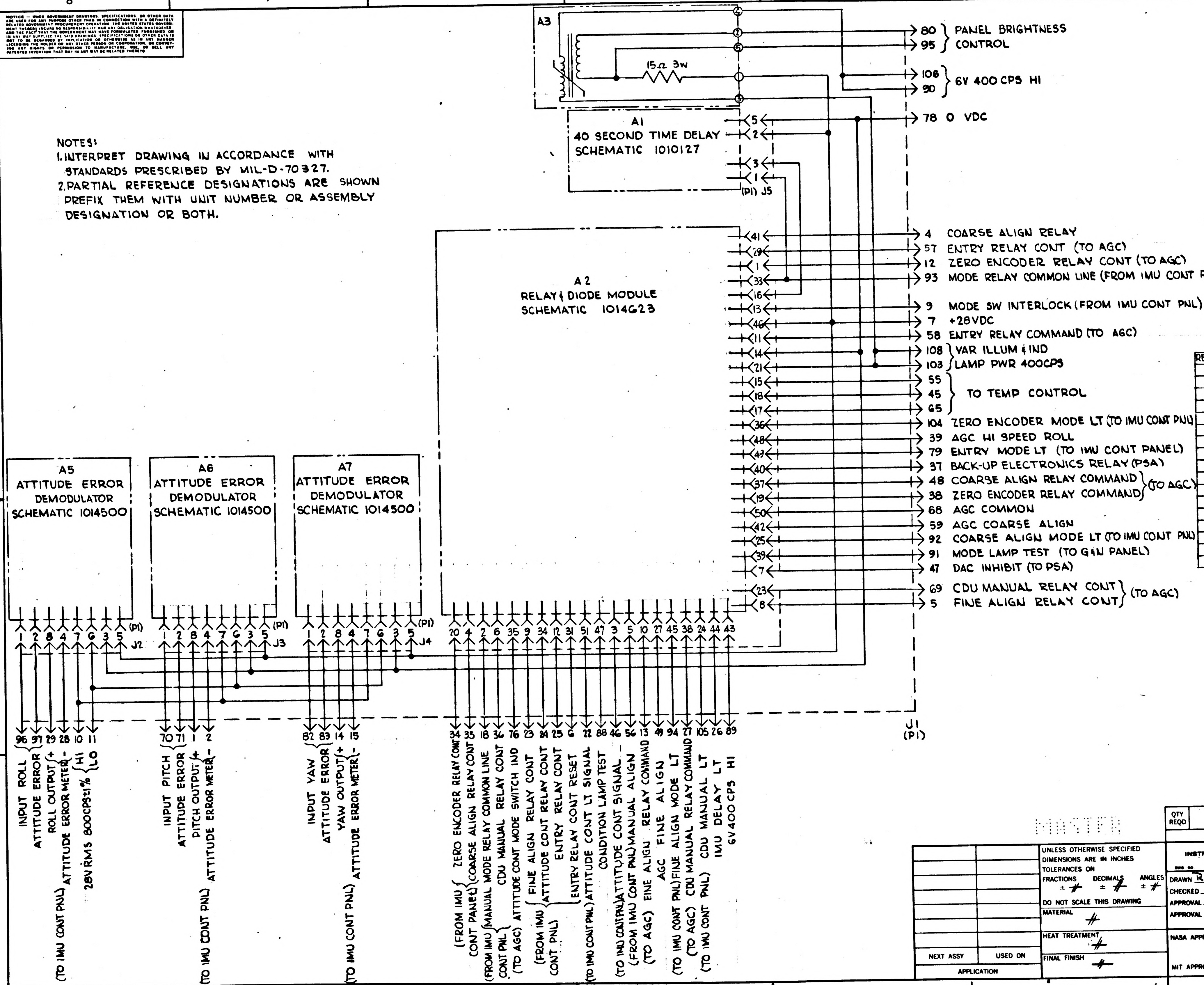
A3
15Ω 3W
A1
40 SECOND TIME DELAY
SCHEMATIC 1010127
(PI) J5
A2
RELAY & DIODE MODULE
SCHEMATIC 1014623
A5
ATTITUDE ERROR
DEMODULATOR
SCHEMATIC 1014500
A6
ATTITUDE ERROR
DEMODULATOR
SCHEMATIC 1014500
A7
ATTITUDE ERROR
DEMODULATOR
SCHEMATIC 1014500
(PI) J2
(PI) J3
(PI) J4
J1
(PI)
80 } PANEL BRIGHTNESS
95 } CONTROL
106 } 6V 400 CPS HI
90
78 0 VDC
4 COARSE ALIGN RELAY
57 ENTRY RELAY CONT (TO AGC)
12 ZERO ENCODER RELAY CONT (TO AGC)
93 MODE RELAY COMMON LINE (FROM IMU CONT PNL)
9 MODE SW INTERLOCK (FROM IMU CONT PNL)
7 +28VDC
58 ENTRY RELAY COMMAND (TO AGC)
108 } VAR ILLUM & IND
103 } LAMP PWR 400CPS
55
45 } TO TEMP CONTROL
65
104 ZERO ENCODER MODE LT (TO IMU CONT PNL)
39 AGC HI SPEED ROLL
79 ENTRY MODE LT (TO IMU CONT PANEL)
37 BACK-UP ELECTRONICS RELAY (PSA)
48 COARSE ALIGN RELAY COMMAND } (TO AGC)
38 ZERO ENCODER RELAY COMMAND
68 AGC COMMON
59 AGC COARSE ALIGN
92 COARSE ALIGN MODE LT (TO IMU CONT PNL)
91 MODE LAMP TEST (TO G&N PANEL)
47 DAC INHIBIT (TO PSA)
69 CDU MANUAL RELAY CONT } (TO AGC)
5 FINE ALIGN RELAY CONT
96 97 INPUT ROLL ATTITUDE ERROR
29 28 (TO IMU CONT PNL) ROLL OUTPUT + ATTITUDE ERROR METER -
10 11 28V RMS 800CPS±1% HI LO
70 71 INPUT PITCH ATTITUDE ERROR
1 2 (TO IMU CONT PNL) PITCH OUTPUT + ATTITUDE ERROR METER -
82 83 INPUT YAW ATTITUDE ERROR
14 15 (TO IMU CONT PNL) YAW OUTPUT + ATTITUDE ERROR METER -
34 (FROM IMU ZERO ENCODER RELAY CONT
35 CONT PANEL) COARSE ALIGN RELAY CONT
18 (FROM IMU MANUAL MODE RELAY COMMON LINE
36 CONT PNL) CDU MANUAL RELAY CONT
76 (TO AGC) ATTITUDE CONT MODE SWITCH IND
23 (FROM IMU FINE ALIGN RELAY CONT
24 CONT PNL) ATTITUDE CONT RELAY CONT
25 ENTRY RELAY CONT
6 ENTRY RELAY CONT RESET
22 (TO IMU CONT PNL) ATTITUDE CONT LT SIGNAL
88 CONDITION LAMP TEST
46 (TO IMU CONT PNL) ATTITUDE CONT SIGNAL
56 (FROM IMU CONT PNL) MANUAL ALIGN
13 (TO AGC) FINE ALIGN RELAY COMMAND
49 AGC FINE ALIGN
94 (TO IMU CONT PNL) FINE ALIGN MODE LT
27 (TO AGC) CDU MANUAL RELAY COMMAND
105 (TO IMU CONT PNL) CDU MANUAL LT
26 IMU DELAY LT
89 6V400CPS HI

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	Ⓑ COMPLETELY REVISED & REDRAWN TDRR 00791	9 APRIL 63	
C3	Ⓒ REVISED J1 & J7 Ⓒ A3-5 & A3-3 INTERCHANGED Ⓒ ADDED P/N'S TDRR 01348	21 MAY 63	
D1	Ⓓ ADDED J1-5, 12, 46, 57 69 TDRR 01384	28 MAY 63	
E5	Ⓔ REMD J7 Ⓔ ADDED P/N J2 THRU J6 Ⓔ REVISED J6 Ⓔ ADDED A3 SCHEM DIAG Ⓔ REVISED J1-37 TDRR-01493	11 JUNE 63	

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00649 **DATE** 27 Mar 63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1007033	40 SEC TIME DELAY			
A2	1007036	RELAY & DIODE MODULE			
A3	1010455	SATURABLE REACTOR			
A4					
A5	1007034	ATTITUDE ERROR DEM			
A6	1007034				
A7	1007034				
J1		CONNECTOR-			
J2	1010314				
J3					
J4					
J5					
J6	1010316-1				
J7	DELETED				

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

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CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN R. LaDue DATE 25 Mar 63
CHECKED
APPROVAL HARRY WHEELER
APPROVAL
NASA APPROVAL
MIT APPROVAL 10 Jun 63

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D&C ELECTRONICS
SCHEMATIC DIAGRAM

CODE IDENT NO. | SIZE D | NASA DRAWING NO. 1014622
SCALE # | WT | SHEET OF

1014622 E

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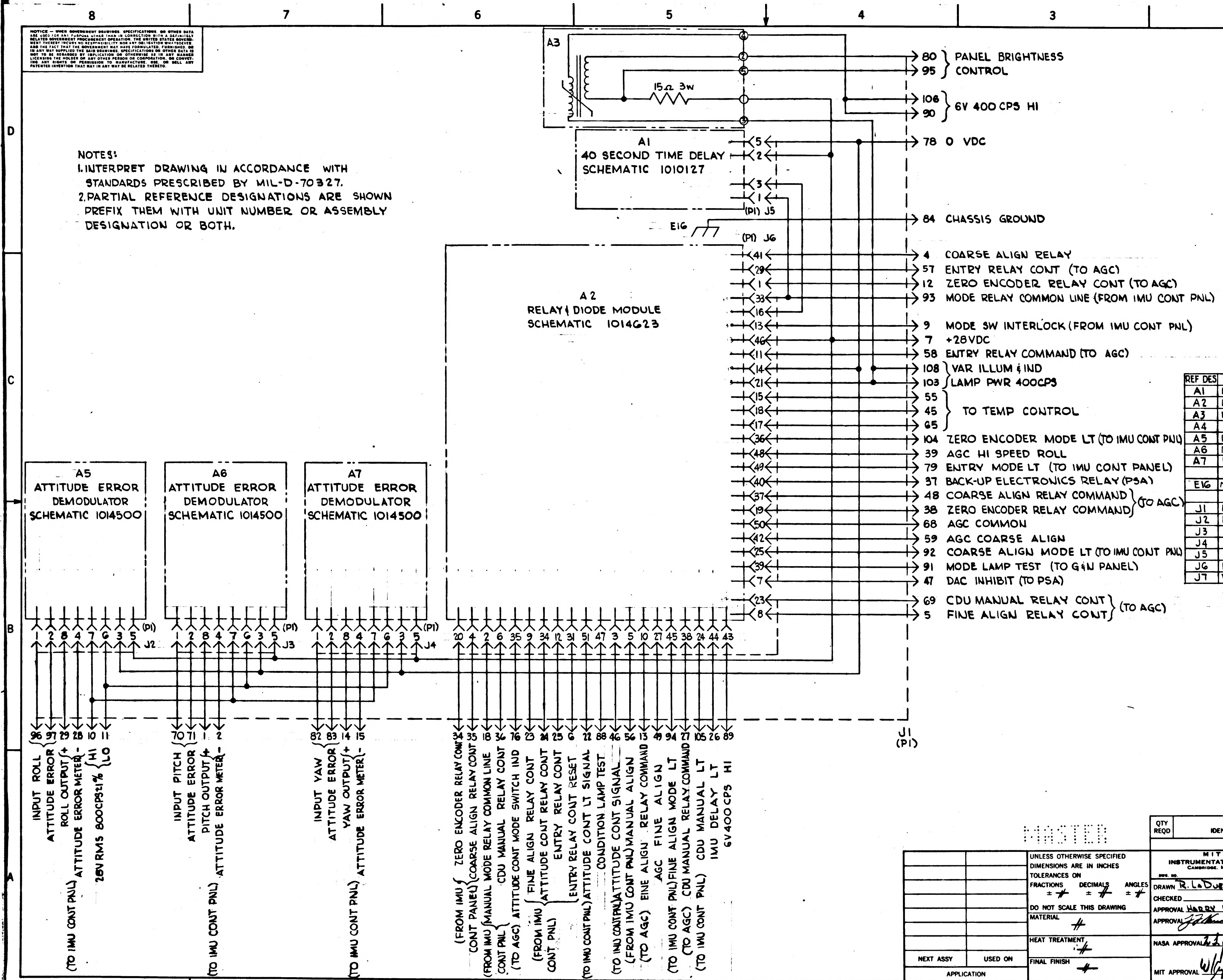
A3
15Ω 3W
A1
40 SECOND TIME DELAY
SCHEMATIC 1010127
(P1) J5
E16
(P1) J6
A2
RELAY & DIODE MODULE
SCHEMATIC 1014623
A5
ATTITUDE ERROR DEMODULATOR
SCHEMATIC 1014500
A6
ATTITUDE ERROR DEMODULATOR
SCHEMATIC 1014500
A7
ATTITUDE ERROR DEMODULATOR
SCHEMATIC 1014500
(P1) J2
(P1) J3
(P1) J4
J1 (P1)
80 } PANEL BRIGHTNESS
95 } CONTROL
106 } 6V 400 CPS HI
90
78 0 VDC
84 CHASSIS GROUND
4 COARSE ALIGN RELAY
57 ENTRY RELAY CONT (TO AGC)
12 ZERO ENCODER RELAY CONT (TO AGC)
93 MODE RELAY COMMON LINE (FROM IMU CONT PNL)
9 MODE SW INTERLOCK (FROM IMU CONT PNL)
7 +28VDC
58 ENTRY RELAY COMMAND (TO AGC)
108 } VAR ILLUM & IND
103 } LAMP PWR 400CPS
55, 45, 65 } TO TEMP CONTROL
104 ZERO ENCODER MODE LT (TO IMU CONT PNL)
39 AGC HI SPEED ROLL
79 ENTRY MODE LT (TO IMU CONT PANEL)
37 BACK-UP ELECTRONICS RELAY (PSA)
48 COARSE ALIGN RELAY COMMAND } (TO AGC)
38 ZERO ENCODER RELAY COMMAND }
68 AGC COMMON
59 AGC COARSE ALIGN
92 COARSE ALIGN MODE LT (TO IMU CONT PNL)
91 MODE LAMP TEST (TO G&N PANEL)
47 DAC INHIBIT (TO PSA)
69 CDU MANUAL RELAY CONT } (TO AGC)
5 FINE ALIGN RELAY CONT }
96 97 INPUT ROLL ATTITUDE ERROR
29 28 (TO IMU CONT PNL) ROLL OUTPUT + ATTITUDE ERROR METER -
10 11 26V RMS 800CPS±1% HI LO
70 71 INPUT PITCH ATTITUDE ERROR
1 2 (TO IMU CONT PNL) PITCH OUTPUT + ATTITUDE ERROR METER -
82 83 INPUT YAW ATTITUDE ERROR
14 15 (TO IMU CONT PNL) YAW OUTPUT + ATTITUDE ERROR METER -
34 (FROM IMU CONT PANEL) ZERO ENCODER RELAY CONT
35 COARSE ALIGN RELAY CONT
18 (FROM IMU CONT PNL) MANUAL MODE RELAY COMMON LINE
36 CDU MANUAL RELAY CONT
76 (TO AGC) ATTITUDE CONT MODE SWITCH IND
23 (FROM IMU CONT PNL) FINE ALIGN RELAY CONT
24 ATTITUDE CONT RELAY CONT
25 ENTRY RELAY CONT
6 ENTRY RELAY CONT RESET
22 (TO IMU CONT PNL) ATTITUDE CONT LT SIGNAL
88 CONDITION LAMP TEST
46 (TO IMU CONT PNL) ATTITUDE CONT SIGNAL
56 (FROM IMU CONT PNL) MANUAL ALIGN
13 (TO AGC) FINE ALIGN RELAY COMMAND
49 AGC FINE ALIGN
94 (TO IMU CONT PNL) FINE ALIGN MODE LT
27 (TO AGC) CDU MANUAL RELAY COMMAND
105 (TO IMU CONT PNL) CDU MANUAL LT
26 IMU DELAY LT
89 6V400CPS HI

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B1	B1 COMPLETELY REVISED & REDRAWN TDRR 00791	9 APRIL 63	RL WK
C3	C1 REVISED J1 & J7 C2 A3-5 & A3-3 INTERCHANGED C3 ADDED P/N'S TDRR 01348	21 MAY 63	WK
D1	D1 ADDED J1-5, 12, 46, 57 69 TDRR 01384	28 MAY 63	WK
E5	E1 REMD J7 E2 ADDED P/N J2 THRU J6 E3 REVISED J6 E4 ADDED A3 SCHEM DIAG E5 REVISED J1-37 TDRR-01493	11 JUNE 63	RSB
F4	F1 J2 THRU J5 WAS 1010314 F2 J6 WAS 1010316-1 F3 ADDED J1-84, E16 F4 ADDED J1 P/N-UP GRADED FOR CLASS A RELEASE 02130	17 JULY 63	WK

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1007033	40 SEC TIME DELAY			
A2	1007036	RELAY & DIODE MODULE			
A3	1010455	SATURABLE REACTOR			
A4					
A5	1007034	ATTITUDE ERROR DEM			
A6	1007034	↓			
A7	1007034	↓			
E16	MS25036-44	TERMINAL LUG			
J1	1010496-1	CONNECTOR-			
J2	1010613	↓			
J3	↓				
J4					
J5	↓				
J6	1010615-1				
J7	DELETED	↓			

MASTER

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LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
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DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

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DRAWN R. LaDue DATE 25MAR63
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APPROVAL HARRY WHEELER
APPROVAL 7/23/63
NASA APPROVAL
MIT APPROVAL W Copper 10/9/63

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D&C ELECTRONICS
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014622
SCALE #
WT
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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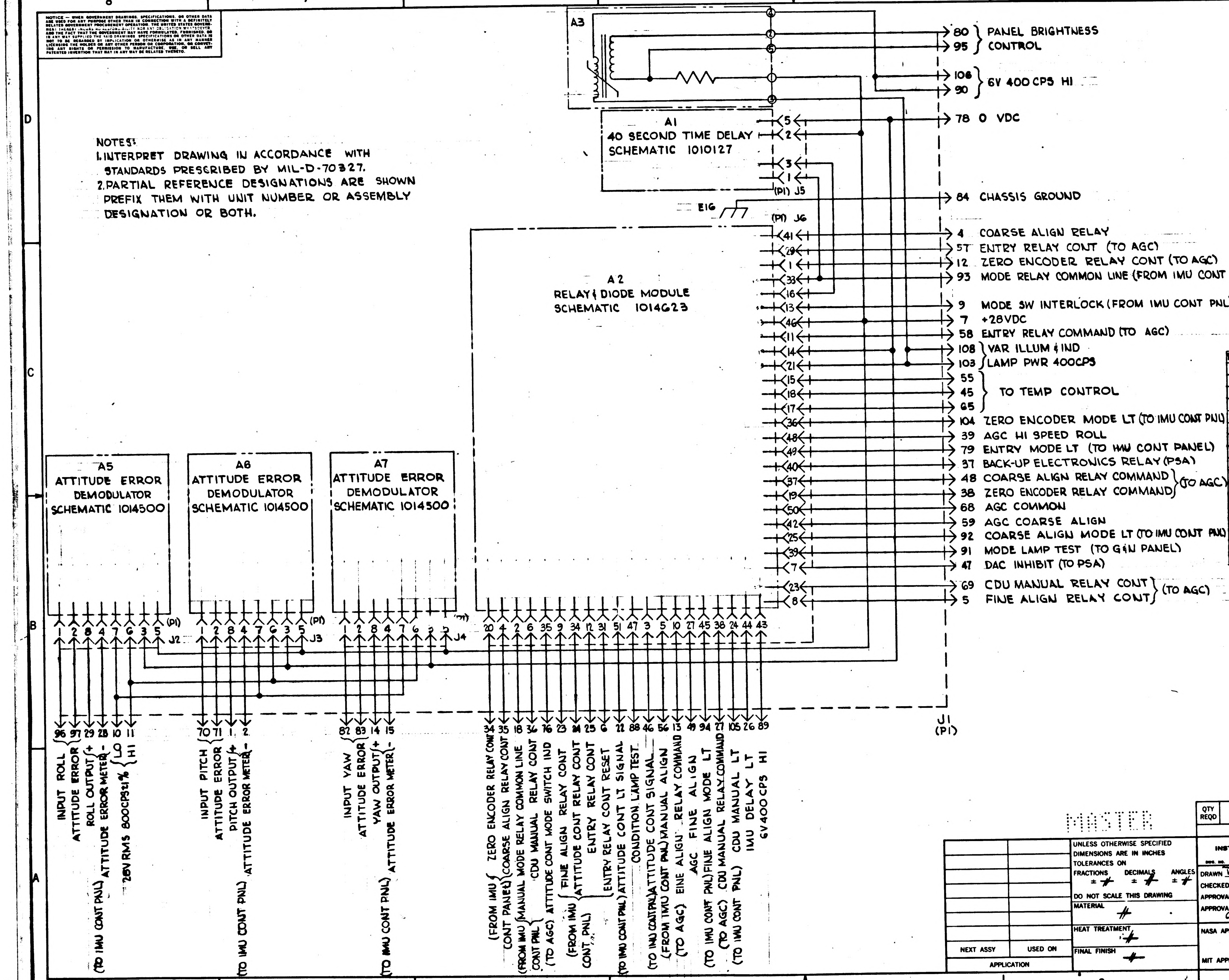
A3
A1
40 SECOND TIME DELAY SCHEMATIC 1010127
(P1) J5
E16
(P1) J6
A2
RELAY & DIODE MODULE SCHEMATIC 1014623
80 } PANEL BRIGHTNESS
95 } CONTROL
106 } 6V 400 CPS HI
90 }
78 0 VDC
84 CHASSIS GROUND
4 COARSE ALIGN RELAY
57 ENTRY RELAY CONT (TO AGC)
12 ZERO ENCODER RELAY CONT (TO AGC)
93 MODE RELAY COMMON LINE (FROM IMU CONT PNL)
9 MODE SW INTERLOCK (FROM IMU CONT PNL)
7 +28VDC
58 ENTRY RELAY COMMAND (TO AGC)
108 } VAR ILLUM & IND
103 } LAMP PWR 400CPS
55
45 TO TEMP CONTROL
65
104 ZERO ENCODER MODE LT (TO IMU CONT PNL)
39 AGC HI SPEED ROLL
79 ENTRY MODE LT (TO IMU CONT PANEL)
37 BACK-UP ELECTRONICS RELAY (PSA)
48 COARSE ALIGN RELAY COMMAND } (TO AGC)
38 ZERO ENCODER RELAY COMMAND
68 AGC COMMON
59 AGC COARSE ALIGN
92 COARSE ALIGN MODE LT (TO IMU CONT PNL)
91 MODE LAMP TEST (TO G&N PANEL)
47 DAC INHIBIT (TO PSA)
69 CDU MANUAL RELAY CONT } (TO AGC)
5 FINE ALIGN RELAY CONT
A5 ATTITUDE ERROR DEMODULATOR SCHEMATIC 1014500
A6 ATTITUDE ERROR DEMODULATOR SCHEMATIC 1014500
A7 ATTITUDE ERROR DEMODULATOR SCHEMATIC 1014500
J2 J3 J4 (P1)
J1 (P1)
96 97 INPUT ROLL ATTITUDE ERROR
29 28 ROLL OUTPUT + ATTITUDE ERROR METER - (TO IMU CONT PNL)
10 11 LO HI 28V RMS 800CPS±1%
70 71 INPUT PITCH ATTITUDE ERROR
1 2 PITCH OUTPUT + ATTITUDE ERROR METER - (TO IMU CONT PNL)
82 83 INPUT YAW ATTITUDE ERROR
14 15 YAW OUTPUT + ATTITUDE ERROR METER - (TO IMU CONT PNL)
34 (FROM IMU CONT PANEL) ZERO ENCODER RELAY CONT
35 COARSE ALIGN RELAY CONT
18 (FROM IMU CONT PNL) MANUAL MODE RELAY COMMON LINE
36 CDU MANUAL RELAY CONT
76 (TO AGC) ATTITUDE CONT MODE SWITCH IND
23 (FROM IMU CONT PNL) FINE ALIGN RELAY CONT
24 ATTITUDE CONT RELAY CONT
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22 (TO IMU CONT PNL) ATTITUDE CONT LT SIGNAL
88 CONDITION LAMP TEST
46 (TO IMU CONT PNL) ATTITUDE CONT SIGNAL
56 (FROM IMU CONT PNL) MANUAL ALIGN
13 (TO AGC) FINE ALIGN RELAY COMMAND
49 AGC FINE ALIGN
94 (TO IMU CONT PNL) FINE ALIGN MODE LT
27 (TO AGC) CDU MANUAL RELAY COMMAND
105 (TO IMU CONT PNL) CDU MANUAL LT
26 IMU DELAY LT
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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	(B1) COMPLETELY REVISED & REDRAWN TDRR 00791	9 APRIL 63	WK
C3	(C1) REVISED J1 & J7 (C2) A3-5 & A3-3 INTERCHANGED (C3) ADDED P/N'S TDRR 01348	21 MAY 63	WK
D1	(D1) ADDED J1-5, 12, 46, 57, 69 TDRR 01384	28 MAY 63	WK
E5	(E1) REMD J7 (E2) ADDED P/N J2 THRU J6 (E3) REVISED J6 (E4) ADDED A3 SCHEM DIAG (E5) REVISED J1-37 TDRR-01493	11 JUNE 63	RSB
F4	(F1) J2 THRU J5 WAS 1010314 (F2) J6 WAS 1010316-1 (F3) ADDED J1-84, E16 (F4) ADDED J1 P/N-UP GRADED FOR CLASS A RELEASE 02130	17 JULY 63	WK
G	REVISED PER TDRR NO. 04238	11/1/63	WK

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1007033	40 SEC TIME DELAY			
A2	1007036	RELAY & DIODE MODULE			
A3	1010455	SATURABLE REACTOR			
A4					
A5	1007034	ATTITUDE ERROR DEM			
A6	1007034				
A7	1007034				
E16	MS25036-44	TERMINAL LUG			
J1	1010496-1	CONNECTOR-			
J2	1010613				
J3					
J4					
J5					
J6	1010615-1				
J7	DELETED				

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R. LaDue DATE 25MAR63
CHECKED
APPROVAL HARRY WHEELER
APPROVAL 7/22/63
NASA APPROVAL
MIT APPROVAL W Kupfer 10/63

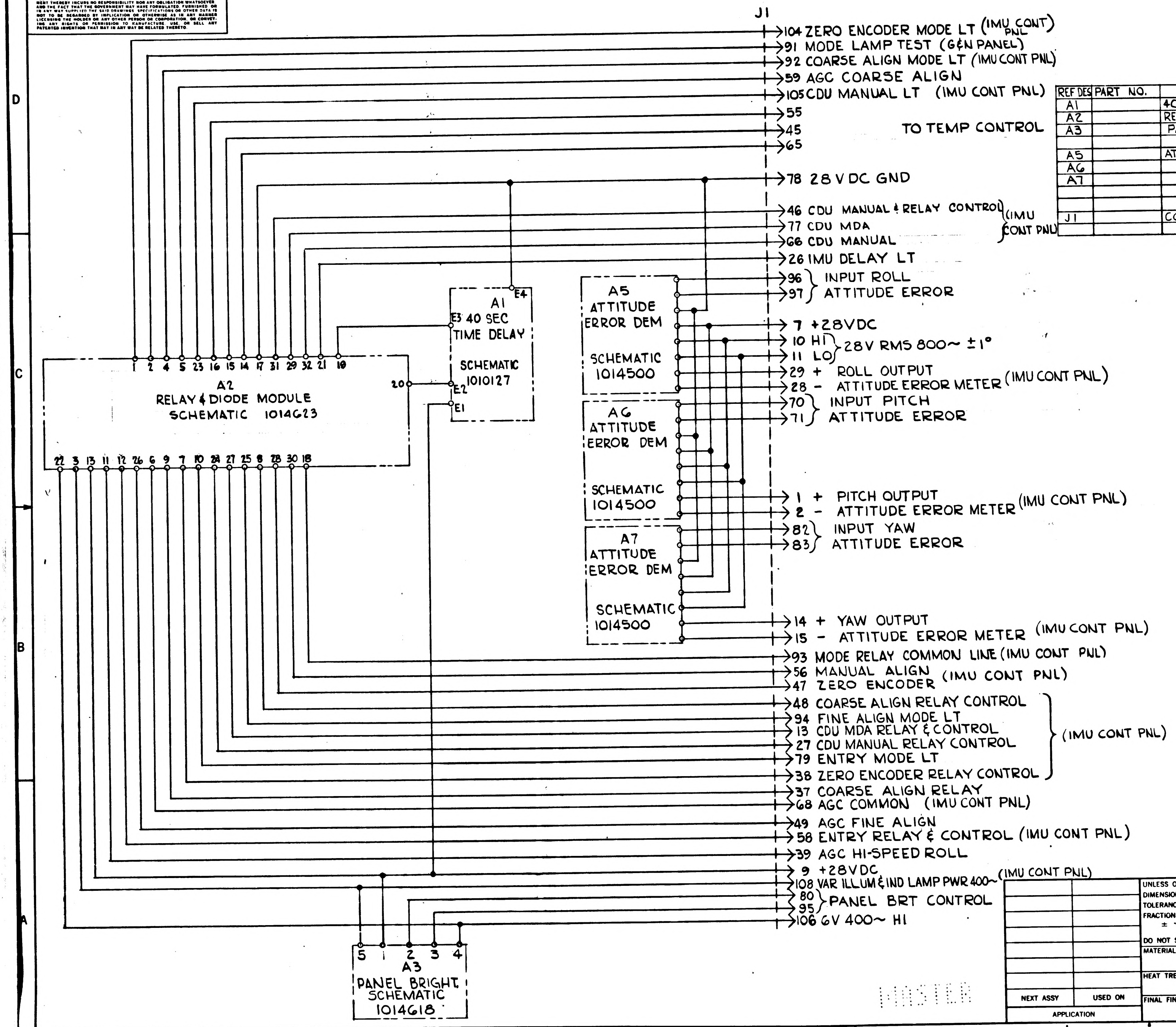
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

D&C ELECTRONICS
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014622
SCALE #
WT
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL


J1
104 ZERO ENCODER MODE LT (IMU CONT PNL)
91 MODE LAMP TEST (G&N PANEL)
92 COARSE ALIGN MODE LT (IMU CONT PNL)
59 AGC COARSE ALIGN
105 CDU MANUAL LT (IMU CONT PNL)
55
45
65
TO TEMP CONTROL
78 28 V DC GND
46 CDU MANUAL & RELAY CONTROL
77 CDU MDA
66 CDU MANUAL
(IMU CONT PNL)
26 IMU DELAY LT
96
97
INPUT ROLL ATTITUDE ERROR
7 +28VDC
10 HI
11 LO
28V RMS 800~ ±1°
29 + ROLL OUTPUT
28 - ATTITUDE ERROR METER
(IMU CONT PNL)
70
71
INPUT PITCH ATTITUDE ERROR
1 + PITCH OUTPUT
2 - ATTITUDE ERROR METER
(IMU CONT PNL)
82
83
INPUT YAW ATTITUDE ERROR
14 + YAW OUTPUT
15 - ATTITUDE ERROR METER
(IMU CONT PNL)
93 MODE RELAY COMMON LINE (IMU CONT PNL)
56 MANUAL ALIGN
47 ZERO ENCODER
(IMU CONT PNL)
48 COARSE ALIGN RELAY CONTROL
94 FINE ALIGN MODE LT
13 CDU MDA RELAY & CONTROL
27 CDU MANUAL RELAY CONTROL
79 ENTRY MODE LT
38 ZERO ENCODER RELAY CONTROL
(IMU CONT PNL)
37 COARSE ALIGN RELAY
68 AGC COMMON (IMU CONT PNL)
49 AGC FINE ALIGN
58 ENTRY RELAY & CONTROL (IMU CONT PNL)
39 AGC HI-SPEED ROLL
9 +28VDC
108 VAR ILLUM & IND LAMP PWR 400~ (IMU CONT PNL)
80
95
PANEL BRT CONTROL
106 6V 400~ HI
A1
40 SEC TIME DELAY
SCHEMATIC 1010127
E1
E2
E3
E4
A2
RELAY & DIODE MODULE
SCHEMATIC 1014623
1 2 4 5 23 16 15 14 17 31 29 32 21 19
20
22 3 13 11 12 26 6 9 7 10 24 27 25 8 28 30 18
A3
PANEL BRIGHT SCHEMATIC 1014618
5 1 2 3 4
A5
ATTITUDE ERROR DEM
SCHEMATIC 1014500
A6
ATTITUDE ERROR DEM
SCHEMATIC 1014500
A7
ATTITUDE ERROR DEM
SCHEMATIC 1014500

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
A1		40 SEC TIME DELAY			
A2		RELAY & DIODE MODULE			
A3		PANEL BRIGTNESS			
A5		ATTITUDE ERROR DEM			
A6		│			
A7		↓			
J1		CONNECTOR			

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00649 DATE 27 Mar 63

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATION ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± —   DECIMALS ± —   ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.   CONTRACT

DRAWN J. Lima RGL DATE 25 MAR 63
CHECKED
APPROVAL Hany J Wheeler
APPROVAL
NASA APPROVAL W J Rhine 3-27-63
MIT APPROVAL W 27 Mar 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

D & C ELECTRONICS
SCHEMATIC DIAGRAM

CODE IDENT NO.   SIZE D   NASA DRAWING NO. 1014622
SCALE   WT   SHEET   OF

1014622

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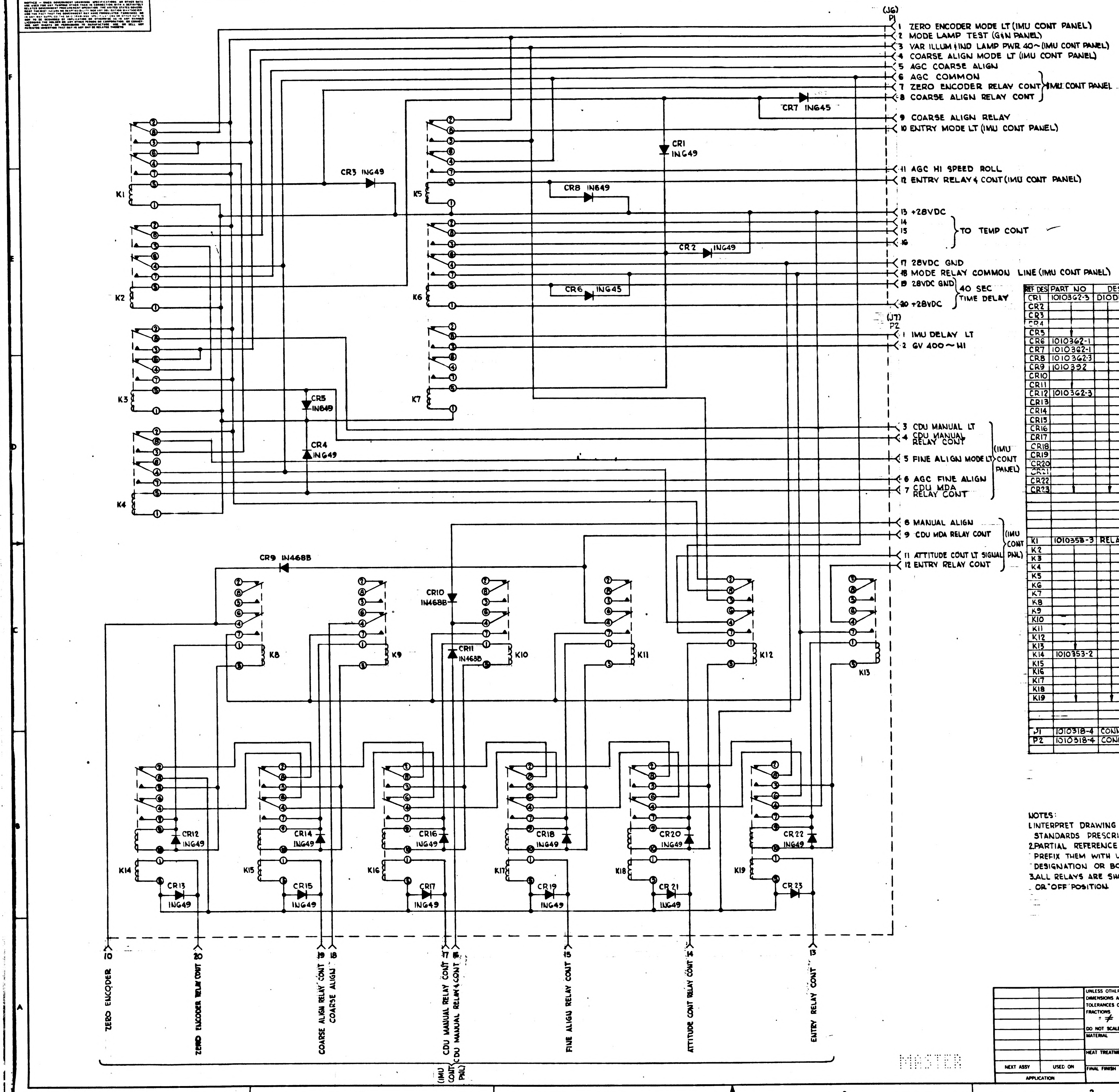
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	Ⓐ COMPLETELY REVISED & REDRAWN TDRR 00720	10 APRIL 63	WH


(J6) P1
1 ZERO ENCODER MODE LT (IMU CONT PANEL)
2 MODE LAMP TEST (G&N PANEL)
3 VAR ILLUM & IND LAMP PWR 40~ (IMU CONT PANEL)
4 COARSE ALIGN MODE LT (IMU CONT PANEL)
5 AGC COARSE ALIGN
6 AGC COMMON
7 ZERO ENCODER RELAY CONT
8 COARSE ALIGN RELAY CONT
IMU CONT PANEL
9 COARSE ALIGN RELAY
10 ENTRY MODE LT (IMU CONT PANEL)
11 AGC HI SPEED ROLL
12 ENTRY RELAY & CONT (IMU CONT PANEL)
13 +28VDC
14
15
16
TO TEMP CONT
17 28VDC GND
18 MODE RELAY COMMON LINE (IMU CONT PANEL)
19 28VDC GND
20 +28VDC
40 SEC TIME DELAY
(J7) P2
1 IMU DELAY LT
2 GV 400~ HI
3 CDU MANUAL LT
4 CDU MANUAL RELAY CONT
5 FINE ALIGN MODE LT
6 AGC FINE ALIGN
7 CDU MDA RELAY CONT
(IMU CONT PANEL)
8 MANUAL ALIGN
9 CDU MDA RELAY CONT
11 ATTITUDE CONT LT SIGNAL
12 ENTRY RELAY CONT
(IMU CONT PNL)
CR7 IN645
CR1 IN649
CR3 IN649
CR8 IN649
CR2 IN649
CR6 IN645
CR5 IN649
CR4 IN649
CR9 IN4688
CR10 IN4688
CR11 IN4688
CR12 IN649
CR13 IN649
CR14 IN649
CR15 IN649
CR16 IN649
CR17 IN649
CR18 IN649
CR19 IN649
CR20 IN649
CR21 IN649
CR22 IN649
CR23
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
K14
K15
K16
K17
K18
K19
10 ZERO ENCODER
20 ZERO ENCODER RELAY CONT
19 COARSE ALIGN RELAY CONT
18 COARSE ALIGN
17 CDU MANUAL RELAY CONT
16 CDU MANUAL RELAY & CONT
15 FINE ALIGN RELAY CONT
14 ATTITUDE CONT RELAY CONT
13 ENTRY RELAY CONT
(IMU CONT PNL)

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. ~~00649~~ OK 00649 [redacted] DATE ~~27 Mar 63~~ OK 27 Mar 63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
CR1	1010362-3	DIODE	IN649		
CR2	↓	↓	↓		
CR3	↓	↓	↓		
CR4	↓	↓	↓		
CR5	↓	↓	↓		
CR6	1010362-1	↓	IN645		
CR7	1010362-1	↓	IN645		
CR8	1010362-3	↓	IN649		
CR9	1010392	↓	IN4688		
CR10	↓	↓	↓		
CR11	↓	↓	↓		
CR12	1010362-3	↓	IN649		
CR13	↓	↓	↓		
CR14	↓	↓	↓		
CR15	↓	↓	↓		
CR16	↓	↓	↓		
CR17	↓	↓	↓		
CR18	↓	↓	↓		
CR19	↓	↓	↓		
CR20	↓	↓	↓		
CR21	↓	↓	↓		
CR22	↓	↓	↓		
CR23	↓	↓	↓		
K1	1010353-3	RELAY			
K2	↓	↓			
K3	↓	↓			
K4	↓	↓			
K5	↓	↓			
K6	↓	↓			
K7	↓	↓			
K8	↓	↓			
K9	↓	↓			
K10	↓	↓			
K11	↓	↓			
K12	↓	↓			
K13	↓	↓			
K14	1010353-2	↓			
K15	↓	↓			
K16	↓	↓			
K17	↓	↓			
K18	↓	↓			
K19	↓	↓			
J1	1010318-4	CONNECTOR			
P2	1010318-4	CONNECTOR			

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ON
FRACTIONS ± ≠ DECIMALS ± ≠ ANGLES ± ≠
DO NOT SCALE THIS DRAWING
MATERIAL ≠
HEAT TREATMENT ≠
FINAL FINISH ≠

MIT INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN R LaDue DATE 12 MAR 63
CHECKED
APPROVAL Harry Wheeler
APPROVAL
NASA APPROVAL
MIT APPROVAL 10 Apr 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RELAY & DIODE MODULE
SCHEMATIC DIAGRAM

CODE IDENT NO. SIZE E NASA DRAWING NO. 1014623
SCALE ≠ WT SHEET OF

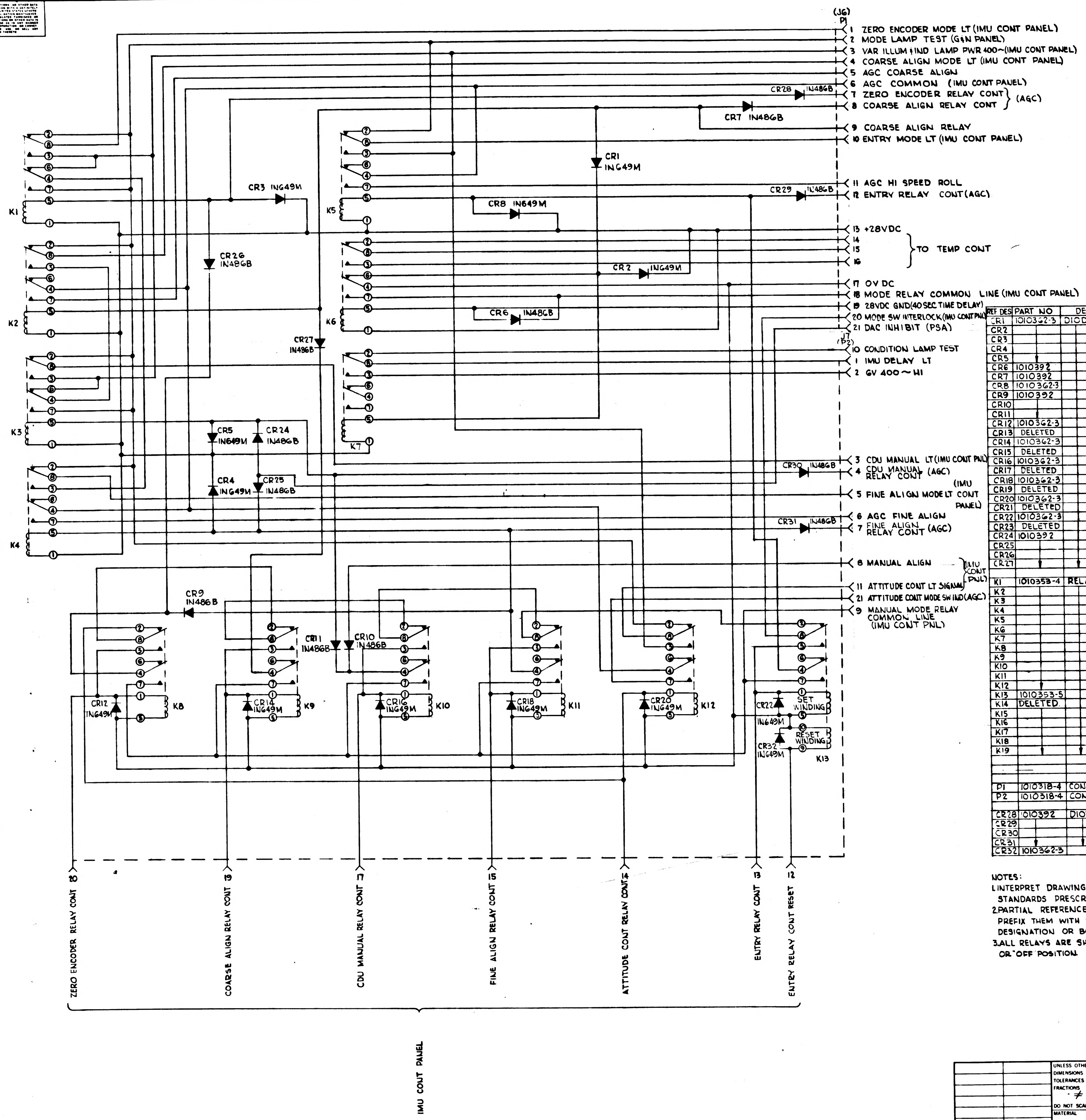
MASTER

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVAL
B1	Ⓑ COMPLETELY REVISED & REDRAWN TDRR 00790	10 APRIL 63	WK
C4	Ⓒ REMD K14 THRU K19 Ⓒ REMD CR13 CR15, CR17, CR19, CR21 & CR23 Ⓒ ADDED CR28 THRU CR32 Ⓒ REVISED K8 THRU K13 CIRCUIT TDRR 01357	21 MAY 63	WK

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. ~~00649~~ 00649 **DATE** 27 May 63



(J6) P1
1 ZERO ENCODER MODE LT (IMU CONT PANEL)
2 MODE LAMP TEST (G&N PANEL)
3 VAR ILLUM & IND LAMP PWR 400~ (IMU CONT PANEL)
4 COARSE ALIGN MODE LT (IMU CONT PANEL)
5 AGC COARSE ALIGN
6 AGC COMMON (IMU CONT PANEL)
7 ZERO ENCODER RELAY CONT
8 COARSE ALIGN RELAY CONT
(AGC)
9 COARSE ALIGN RELAY
10 ENTRY MODE LT (IMU CONT PANEL)
11 AGC HI SPEED ROLL
12 ENTRY RELAY CONT (AGC)
13 +28VDC
14
15
16
TO TEMP CONT
17 OV DC
18 MODE RELAY COMMON LINE (IMU CONT PANEL)
19 28VDC GND (40 SEC TIME DELAY)
20 MODE SW INTERLOCK (IMU CONT PNL)
21 DAC INHIBIT (PSA)
(J7) P2
10 CONDITION LAMP TEST
1 IMU DELAY LT
2 GV 400~HI
3 CDU MANUAL LT (IMU CONT PNL)
4 CDU MANUAL RELAY CONT (AGC)
5 FINE ALIGN MODE LT CONT (IMU CONT PANEL)
6 AGC FINE ALIGN
7 FINE ALIGN RELAY CONT (AGC)
8 MANUAL ALIGN (IMU CONT PNL)
11 ATTITUDE CONT LT SIGNAL
21 ATTITUDE CONT MODE SW IND (AGC)
9 MANUAL MODE RELAY COMMON LINE (IMU CONT PNL)
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
SET WINDING
RESET WINDING
CR1 1N649M
CR2 1N649M
CR3 1N649M
CR4 1N649M
CR5 1N649M
CR6 1N486B
CR7 1N486B
CR8 1N649M
CR9 1N486B
CR10 1N486B
CR11 1N486B
CR12 1N649M
CR14 1N649M
CR16 1N649M
CR18 1N649M
CR20 1N649M
CR22 1N649M
CR24 1N486B
CR25 1N486B
CR26 1N486B
CR27 1N486B
CR28 1N486B
CR29 1N486B
CR30 1N486B
CR31 1N486B
CR32 1N649M
20 ZERO ENCODER RELAY CONT
19 COARSE ALIGN RELAY CONT
17 CDU MANUAL RELAY CONT
15 FINE ALIGN RELAY CONT
14 ATTITUDE CONT RELAY CONT
13 ENTRY RELAY CONT
12 ENTRY RELAY CONT RESET
IMU CONT PANEL

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
CR1	1010362-3	DIODE	1N649M		
CR2					
CR3					
CR4					
CR5					
CR6	1010392		1N486B		
CR7	1010392		1N486B		
CR8	1010362-3		1N649M		
CR9	1010392		1N486B		
CR10					
CR11					
CR12	1010362-3		1N649M		
CR13	DELETED				
CR14	1010362-3				
CR15	DELETED				
CR16	1010362-3				
CR17	DELETED				
CR18	1010362-3				
CR19	DELETED				
CR20	1010362-3				
CR21	DELETED				
CR22	1010362-3				
CR23	DELETED				
CR24	1010392		1N486B		
CR25					
CR26					
CR27					
K1	1010353-4	RELAY			
K2					
K3					
K4					
K5					
K6					
K7					
K8					
K9					
K10					
K11					
K12					
K13	1010353-5				
K14	DELETED				
K15					
K16					
K17					
K18					
K19					
P1	1010318-4	CONNECTOR			
P2	1010318-4	CONNECTOR			
CR28	1010392	DIODE	1N486B		
CR29					
CR30					
CR31					
CR32	1010362-3		1N649M		

NOTES:

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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ≠ DECIMALS ± ≠ ANGLES ± ≠
DO NOT SCALE THIS DRAWING
MATERIAL ≠
HEAT TREATMENT ≠
FINAL FINISH ≠

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CAMBRIDGE MASS
DWG NO
CONTRACT
DRAWN R. LaDue DATE 2 MAR 63
CHECKED
APPROVAL HARRY WHEELER
APPROVAL
NASA APPROVAL
MIT APPROVAL 10 Apr 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RELAY & DIODE MODULE
SCHEMATIC DIAGRAM

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014623
SCALE ≠
WT
SHEET OF

1014623

INCHES
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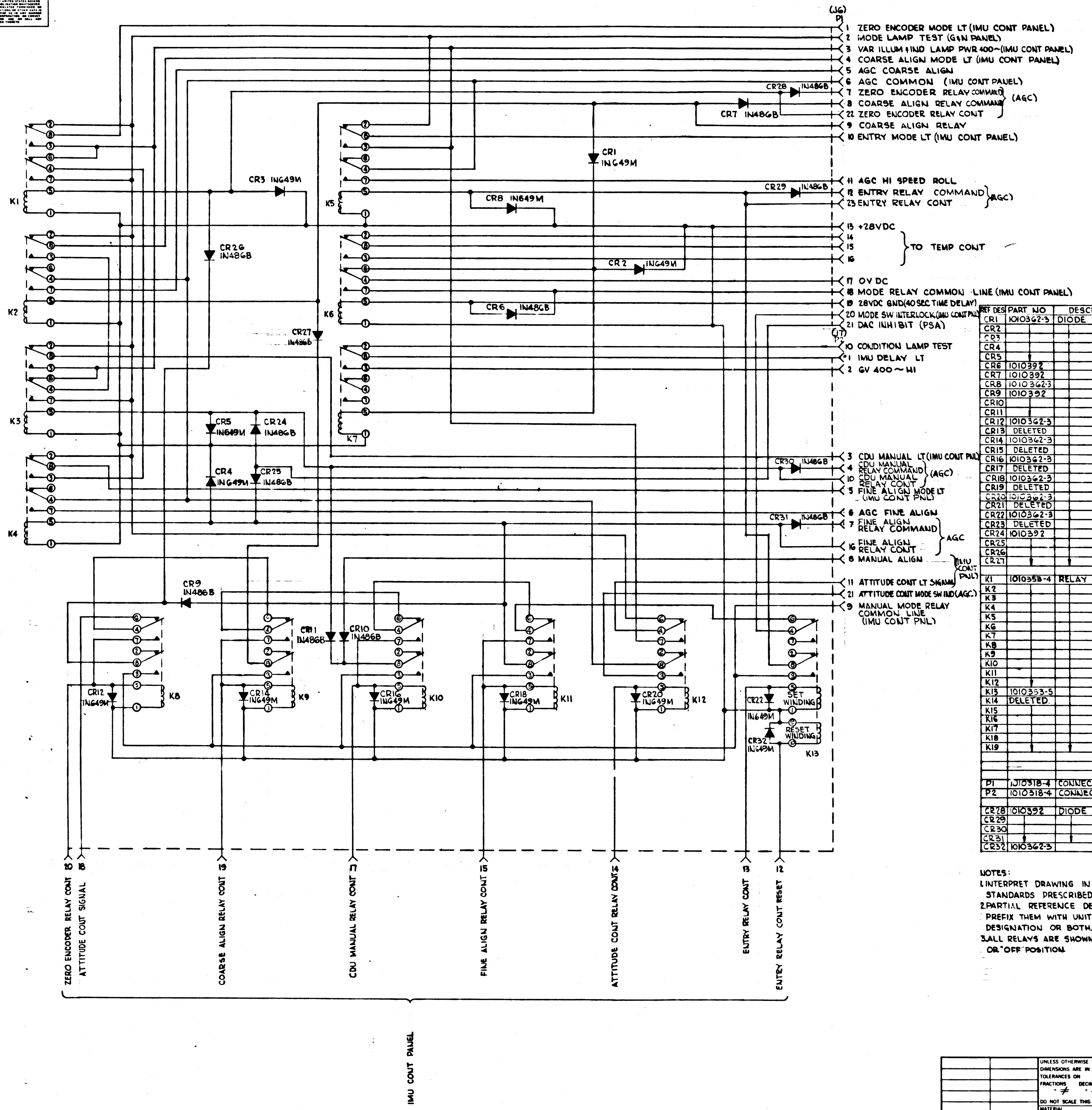
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
B1	Ⓐ COMPLETELY REVISED & REDRAWN TDRR 00790	10 APRIL 63	WK
C4	Ⓒ REMD K14 THRU K19 Ⓒ REMD CR13 CR15, CR17, CR19, CR21 & CR23 Ⓒ ADDED CR28 THRU CR32 Ⓒ REVISED K8 THRU K13 CIRCUIT TDRR 01351	21 MAY 63	WK
D3	Ⓓ REVISED TERMINALS, K8 THRU K13 Ⓓ ADDED P1-22, 23 P2-10, 16, 18 Ⓓ REVERSED CR12, 14, 16, 18, 20, 22 TDRR 0 386	28 MAY 63	WK


(J6)
P1
1 ZERO ENCODER MODE LT (IMU CONT PANEL)
2 MODE LAMP TEST (G&N PANEL)
3 VAR ILLUM & IND LAMP PWR 400~ (IMU CONT PANEL)
4 COARSE ALIGN MODE LT (IMU CONT PANEL)
5 AGC COARSE ALIGN
6 AGC COMMON (IMU CONT PANEL)
7 ZERO ENCODER RELAY COMMAND
8 COARSE ALIGN RELAY COMMAND
22 ZERO ENCODER RELAY CONT
(AGC)
9 COARSE ALIGN RELAY
10 ENTRY MODE LT (IMU CONT PANEL)
11 AGC HI SPEED ROLL
12 ENTRY RELAY COMMAND
23 ENTRY RELAY CONT
(AGC)
13 +28VDC
14
15
16
TO TEMP CONT
17 OV DC
18 MODE RELAY COMMON LINE (IMU CONT PANEL)
19 28VDC GND (40 SEC TIME DELAY)
20 MODE SW INTERLOCK (IMU CONT PNL)
21 DAC INHIBIT (PSA)
(J7)
P2
10 CONDITION LAMP TEST
1 IMU DELAY LT
2 GV 400~ HI
3 CDU MANUAL LT (IMU CONT PNL)
4 CDU MANUAL RELAY COMMAND
10 CDU MANUAL RELAY CONT
(AGC)
5 FINE ALIGN MODE LT (IMU CONT PNL)
6 AGC FINE ALIGN
7 FINE ALIGN RELAY COMMAND
16 FINE ALIGN RELAY CONT
AGC
8 MANUAL ALIGN
11 ATTITUDE CONT LT SIGNAL
(IMU CONT PNL)
21 ATTITUDE CONT MODE SW IND (AGC)
9 MANUAL MODE RELAY COMMON LINE (IMU CONT PNL)
CR28 IN486B
CR7 IN486B
CR1 IN649M
CR29 IN486B
CR3 IN649M
CR8 IN649M
CR2 IN649M
CR26 IN486B
CR6 IN486B
CR27 IN486B
CR5 IN649M
CR24 IN486B
CR4 IN649M
CR25 IN486B
CR30 IN486B
CR31 IN486B
CR9 IN486B
CR11 IN486B
CR10 IN486B
CR12 IN649M
CR14 IN649M
CR16 IN649M
CR18 IN649M
CR20 IN649M
CR22 IN649M
CR32 IN649M
SET WINDING
RESET WINDING
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
10
18
19
17
15
14
13
12
ZERO ENCODER RELAY CONT
ATTITUDE CONT SIGNAL
COARSE ALIGN RELAY CONT
CDU MANUAL RELAY CONT
FINE ALIGN RELAY CONT
ATTITUDE CONT RELAY CONT
ENTRY RELAY CONT
ENTRY RELAY CONT RESET
IMU CONT PANEL

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. ~~00649~~ 00649 OK [redacted] DATE ~~27 Apr 63~~ OK 27 May 63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
CR1	1010362-3	DIODE	IN649M		
CR2					
CR3					
CR4					
CR5	↓		↓		
CR6	1010392		IN486B		
CR7	1010392		IN486B		
CR8	1010362-3		IN649M		
CR9	1010392		IN486B		
CR10					
CR11	↓		↓		
CR12	1010362-3		IN649M		
CR13	DELETED				
CR14	1010362-3				
CR15	DELETED				
CR16	1010362-3				
CR17	DELETED				
CR18	1010362-3				
CR19	DELETED				
CR20	1010362-3				
CR21	DELETED				
CR22	1010362-3				
CR23	DELETED		↓		
CR24	1010392		IN486B		
CR25					
CR26					
CR27	↓	↓	↓		
K1	1010353-4	RELAY			
K2					
K3					
K4					
K5					
K6					
K7					
K8					
K9					
K10					
K11					
K12	↓				
K13	1010353-5				
K14	DELETED				
K15					
K16					
K17					
K18					
K19	↓	↓			
P1	1010318-4	CONNECTOR			
P2	1010318-4	CONNECTOR			
CR28	1010392	DIODE	IN486B		
CR29					
CR30					
CR31	↓	↓			
CR32	1010362-3		IN649M		

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3. ALL RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ≠ DECIMALS ± ≠ ANGLES ± ≠
DO NOT SCALE THIS DRAWING
MATERIAL ≠
HEAT TREATMENT ≠
FINAL FINISH ≠

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO
CONTRACT
DRAWN R. LaDue DATE 2 Mar 63
CHECKED
APPROVAL Harry Wheeler
APPROVAL
NASA APPROVAL
MIT APPROVAL W. Kupfer 10 Apr 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

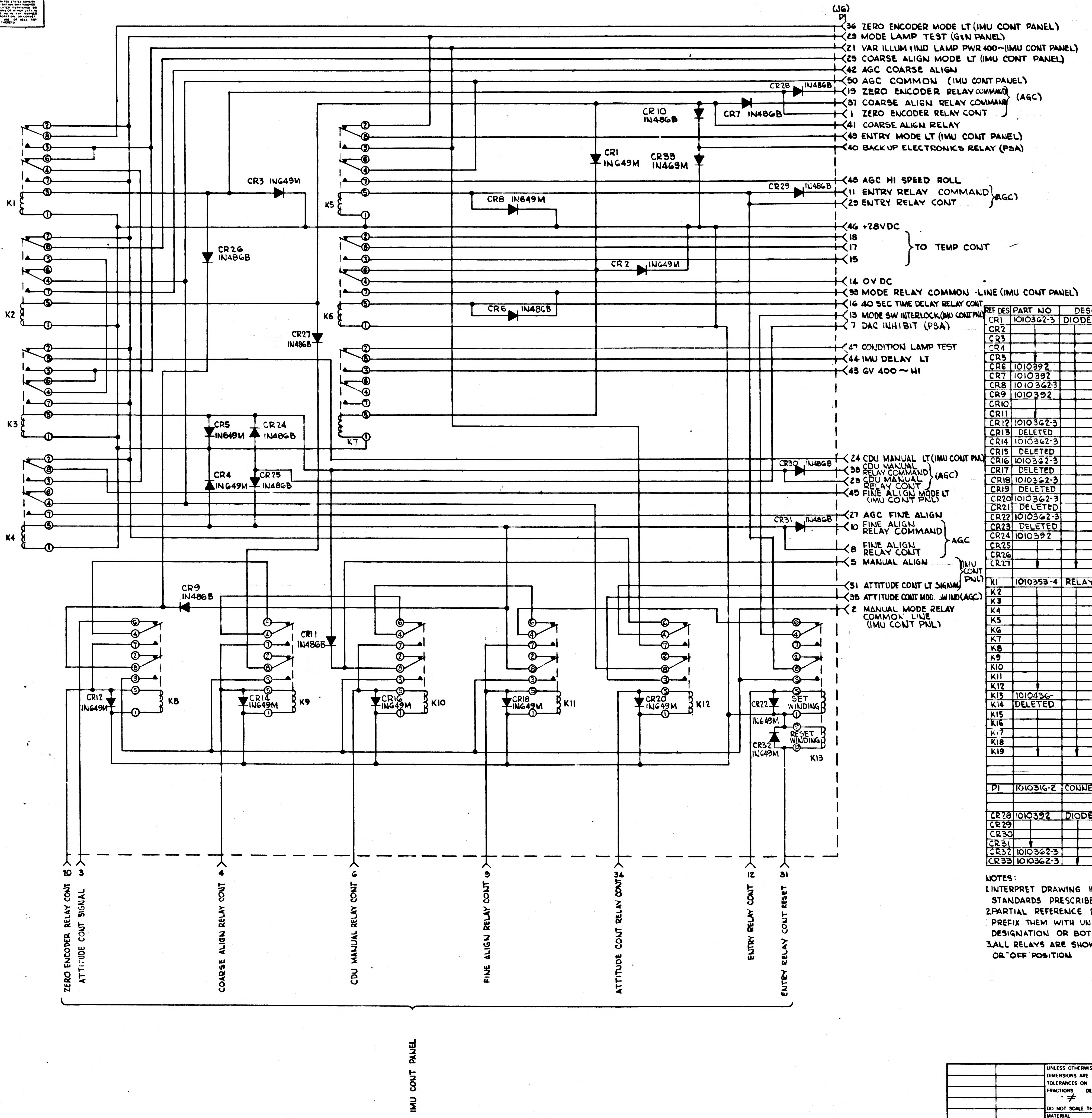
RELAY & DIODE MODULE
SCHEMATIC DIAGRAM

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014623
SCALE ≠
WT
SHEET OF

1014623

INCHES
PHOTOGRAPHIC SCALE ONLY

	REVISIONS			
	SYM	DESCRIPTION	DATE	APPROVAL
Ⓜ	B1	(B1) COMPLETELY REVISED & REDRAWN TDRR 00790	10 APRIL 63	WK
Ⓜ	C4	(C1) REMD K14 THRU K19 (C2) REMD CR13 CR15, CR17, CR19, CR21 & CR23 (C3) ADDED CR28 THRU CR32 (C4) REVISED K8 THRU K13 CIRCUIT TDRR 01351	21 MAY 63	WK
Ⓜ	D3	(D1) REVISED TERMINALS, K8 THRU K13 (D2) ADDED P1-22, 23 P2-10, 16, 18 (D3) REVERSED CR12, 14, 16, 18, 20, 22 TDRR 01386	28 MAY 63	WK.
	E6	(E1) RELOCATED R.O FROM ZONE C8 TO F3 (E2) REMD P2 (1010318-4) (E3) P1 PART NO. WAS 1010318-4 (E4) REVISED PIN NO'S (E5) ADDED CR33 & ASSOC INFO. (E6) K13 WAS 1010353-5 TDRR 1484	JUN 63	RKB


(J6)
P1
36 ZERO ENCODER MODE LT (IMU CONT PANEL)
29 MODE LAMP TEST (G&N PANEL)
21 VAR ILLUM & IND LAMP PWR 400~ (IMU CONT PANEL)
25 COARSE ALIGN MODE LT (IMU CONT PANEL)
42 AGC COARSE ALIGN
50 AGC COMMON (IMU CONT PANEL)
19 ZERO ENCODER RELAY COMMAND
37 COARSE ALIGN RELAY COMMAND
1 ZERO ENCODER RELAY CONT
(AGC)
41 COARSE ALIGN RELAY
49 ENTRY MODE LT (IMU CONT PANEL)
40 BACK UP ELECTRONICS RELAY (PSA)
48 AGC HI SPEED ROLL
11 ENTRY RELAY COMMAND
29 ENTRY RELAY CONT
(AGC)
46 +28VDC
18
17
15
TO TEMP CONT
14 OV DC
33 MODE RELAY COMMON LINE (IMU CONT PANEL)
16 40 SEC TIME DELAY RELAY CONT
13 MODE SW INTERLOCK (IMU CONT PNL)
7 DAC INHIBIT (PSA)
47 CONDITION LAMP TEST
44 IMU DELAY LT
43 GV 400~ HI
24 CDU MANUAL LT (IMU CONT PNL)
38 CDU MANUAL RELAY COMMAND
23 CDU MANUAL RELAY CONT
(AGC)
45 FINE ALIGN MODE LT (IMU CONT PNL)
27 AGC FINE ALIGN
10 FINE ALIGN RELAY COMMAND
8 FINE ALIGN RELAY CONT
AGC
5 MANUAL ALIGN
51 ATTITUDE CONT LT SIGNAL
(IMU CONT PNL)
35 ATTITUDE CONT MOD. SW IND (AGC)
2 MANUAL MODE RELAY COMMON LINE (IMU CONT PNL)
CR28 IN486B
CR10 IN486B
CR7 IN486B
CR1 IN649M
CR33 IN469M
CR3 IN649M
CR29 IN486B
CR8 IN649M
CR26 IN486B
CR2 IN649M
CR6 IN486B
CR27 IN486B
CR5 IN649M
CR24 IN486B
CR4 IN649M
CR25 IN486B
CR30 IN486B
CR31 IN486B
CR9 IN486B
CR11 IN486B
CR12 IN649M
CR14 IN649M
CR16 IN649M
CR18 IN649M
CR20 IN649M
CR22 IN649M
CR32 IN649M
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
SET WINDING
RESET WINDING
20
3
4
6
9
34
12
31
ZERO ENCODER RELAY CONT
ATTITUDE CONT SIGNAL
COARSE ALIGN RELAY CONT
CDU MANUAL RELAY CONT
FINE ALIGN RELAY CONT
ATTITUDE CONT RELAY CONT
ENTRY RELAY CONT
ENTRY RELAY CONT RESET
IMU CONT PANEL

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. ~~00649~~ OK 00649 [redacted] DATE ~~27 Mar 63~~ OK 27 Mar 63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
CR1	1010362-3	DIODE	IN649M		
CR2					
CR3					
CR4					
CR5					
CR6	1010392		IN486B		
CR7	1010392		IN486B		
CR8	1010362-3		IN649M		
CR9	1010392		IN486B		
CR10					
CR11					
CR12	1010362-3		IN649M		
CR13	DELETED				
CR14	1010362-3				
CR15	DELETED				
CR16	1010362-3				
CR17	DELETED				
CR18	1010362-3				
CR19	DELETED				
CR20	1010362-3				
CR21	DELETED				
CR22	1010362-3				
CR23	DELETED				
CR24	1010392		IN486B		
CR25					
CR26					
CR27					
K1	1010353-4	RELAY			
K2					
K3					
K4					
K5					
K6					
K7					
K8					
K9					
K10					
K11					
K12					
K13	1010436-				
K14	DELETED				
K15					
K16					
K17					
K18					
K19					
P1	1010316-2	CONNECTOR			
CR28	1010392	DIODE	IN486B		
CR29					
CR30					
CR31					
CR32	1010362-3		IN649M		
CR33	1010362-3		IN649M		

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3. ALL RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ≠ DECIMALS ± ≠ ANGLES ± ≠
DO NOT SCALE THIS DRAWING
MATERIAL ≠
HEAT TREATMENT ≠
FINAL FINISH ≠

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO
CONTRACT
DRAWN R. LaDue DATE 2 MAR 63
CHECKED
APPROVAL HARRY WHEELER
APPROVAL
NASA APPROVAL
MIT APPROVAL 10 Jun 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

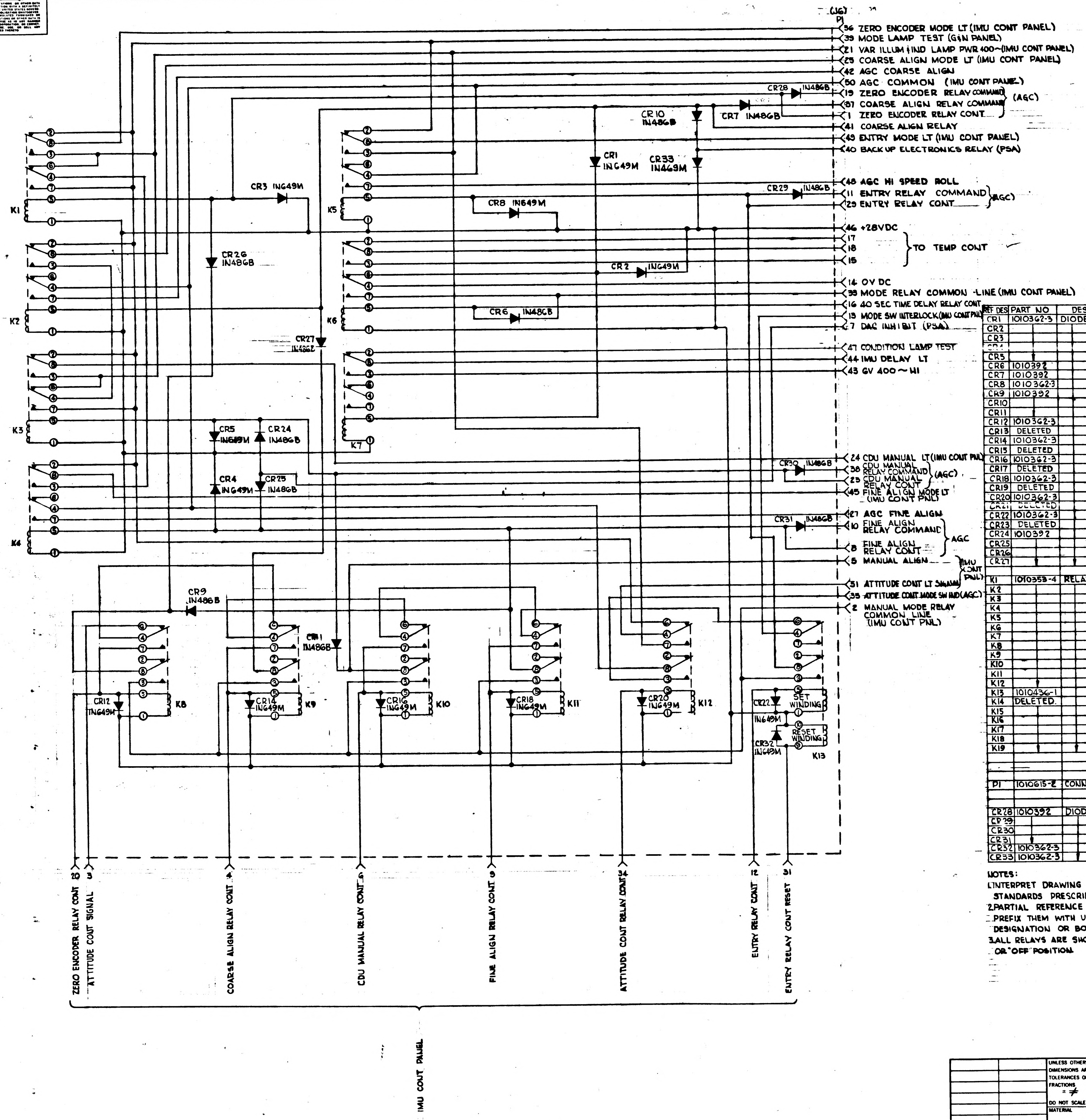
RELAY & DIODE MODULE
SCHEMATIC DIAGRAM

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014623
SCALE ≠
WT
SHEET OF

1014623 E

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVAL
B1	(B1) COMPLETELY REVISED & REDRAWN TDRR 00720	10 APRIL 63	WK
C4	(C1) REMD K14 THRU K19 (C2) REMD CR13 CR15, CR17, CR19, CR21 & CR23 (C3) ADDED CR24 THRU CR32 (C4) REVISED K8 THRU K13 CIRCUIT TDRR 01351	21 MAY 63	WK
D3	(D1) REVISED TERMINALS, K8 THRU K13 (D2) ADDED P1-22, 23 P2-10, 16, 18 (D3) REVERSED CR12, 14, 16, 18, 20, 22 TDRR 01386	28 MAY 63	WK.
E6	(E1) RELOCATED R10 FROM ZONE C8 TO F3 (E2) REMD P2 (1010318-4) (E3) P1 PART NO. WAS 1010318-4 (E4) REVISED PIN NO'S (E5) ADDED CR 33 & ASSOC INFO. (E6) K13 WAS 1010353-5 TDRR 1494	11 JUN 63	RKB
F6	(F1) PIN 38 WAS 23. (F2) PIN 17 WAS 16 (F3) PIN 18 WAS 17 (F4) K13 P/N WAS 1010436 (F5) K13-9 WAS K13-10, K13-10 WAS K13-9 (F6) P1 WAS 1010316-2 UPGRADED FOR CLASS A RELEASE TDRR 01998	9 JULY 63	17 July 63 WK.


(J6)
P1
36 ZERO ENCODER MODE LT (IMU CONT PANEL)
39 MODE LAMP TEST (G&N PANEL)
21 VAR ILLUM & IND LAMP PWR 400~ (IMU CONT PANEL)
25 COARSE ALIGN MODE LT (IMU CONT PANEL)
42 AGC COARSE ALIGN
50 AGC COMMON (IMU CONT PANEL)
19 ZERO ENCODER RELAY COMMAND
37 COARSE ALIGN RELAY COMMAND
1 ZERO ENCODER RELAY CONT
(AGC)
41 COARSE ALIGN RELAY
49 ENTRY MODE LT (IMU CONT PANEL)
40 BACK UP ELECTRONICS RELAY (PSA)
48 AGC HI SPEED ROLL
11 ENTRY RELAY COMMAND
29 ENTRY RELAY CONT
(AGC)
46 +28VDC
17
18
15
TO TEMP CONT
14 OV DC
33 MODE RELAY COMMON -LINE (IMU CONT PANEL)
16 40 SEC TIME DELAY RELAY CONT
13 MODE SW INTERLOCK (IMU CONT PNL)
7 DAC INHIBIT (PSA)
47 CONDITION LAMP TEST
44 IMU DELAY LT
43 GV 400~HI
24 CDU MANUAL LT (IMU CONT PNL)
38 CDU MANUAL RELAY COMMAND
23 CDU MANUAL RELAY CONT
(AGC)
45 FINE ALIGN MODE LT (IMU CONT PNL)
27 AGC FINE ALIGN
10 FINE ALIGN RELAY COMMAND
8 FINE ALIGN RELAY CONT
AGC
5 MANUAL ALIGN
51 ATTITUDE CONT LT SIGNAL
IMU CONT PNL
35 ATTITUDE CONT MODE SW IND (AGC)
2 MANUAL MODE RELAY COMMON LINE (IMU CONT PNL)
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
SET WINDING
RESET WINDING
CR1 1N649M
CR2 1N649M
CR3 1N649M
CR4 1N649M
CR5 1N649M
CR6 1N486B
CR7 1N486B
CR8 1N649M
CR9 1N486B
CR10 1N486B
CR11 1N486B
CR12 1N649M
CR14 1N649M
CR16 1N649M
CR18 1N649M
CR20 1N649M
CR22 1N649M
CR24 1N486B
CR25 1N486B
CR26 1N486B
CR27 1N486B
CR28 1N486B
CR29 1N486B
CR30 1N486B
CR31 1N486B
CR32 1N649M
CR33 1N649M
20 ZERO ENCODER RELAY CONT
3 ATTITUDE CONT SIGNAL
4 COARSE ALIGN RELAY CONT
6 CDU MANUAL RELAY CONT
9 FINE ALIGN RELAY CONT
34 ATTITUDE CONT RELAY CONT
12 ENTRY RELAY CONT
31 ENTRY RELAY CONT RESET
IMU CONT PANEL

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
CR1	1010362-3	DIODE	1N649M		
CR2					
CR3					
CR4					
CR5					
CR6	1010392		1N486B		
CR7	1010392		1N486B		
CR8	1010362-3		1N649M		
CR9	1010392		1N486B		
CR10					
CR11					
CR12	1010362-3		1N649M		
CR13	DELETED				
CR14	1010362-3				
CR15	DELETED				
CR16	1010362-3				
CR17	DELETED				
CR18	1010362-3				
CR19	DELETED				
CR20	1010362-3				
CR21	DELETED				
CR22	1010362-3				
CR23	DELETED				
CR24	1010392		1N486B		
CR25					
CR26					
CR27					
K1	1010353-4	RELAY			
K2					
K3					
K4					
K5					
K6					
K7					
K8					
K9					
K10					
K11					
K12					
K13	1010436-1				
K14	DELETED.				
K15					
K16					
K17					
K18					
K19					
P1	1010615-2	CONNECTOR			
CR28	1010392	DIODE	1N486B		
CR29					
CR30					
CR31					
CR32	1010362-3		1N649M		
CR33	1010362-3		1N649M		

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
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~~00649~~ OK
00649 ~~27 May 63~~ OK 27 May 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ≠ DECIMALS ± ≠ ANGLES ± ≠
DO NOT SCALE THIS DRAWING
MATERIAL ≠
HEAT TREATMENT ≠
FINAL FINISH ≠

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO
CONTRACT
DRAWN R. LaDue DATE 12 MAR 63
CHECKED
APPROVAL Harry Wheeler
APPROVAL 7/1/63
NASA APPROVAL
MIT APPROVAL 10 July 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RELAY & DIODE MODULE
SCHEMATIC DIAGRAM

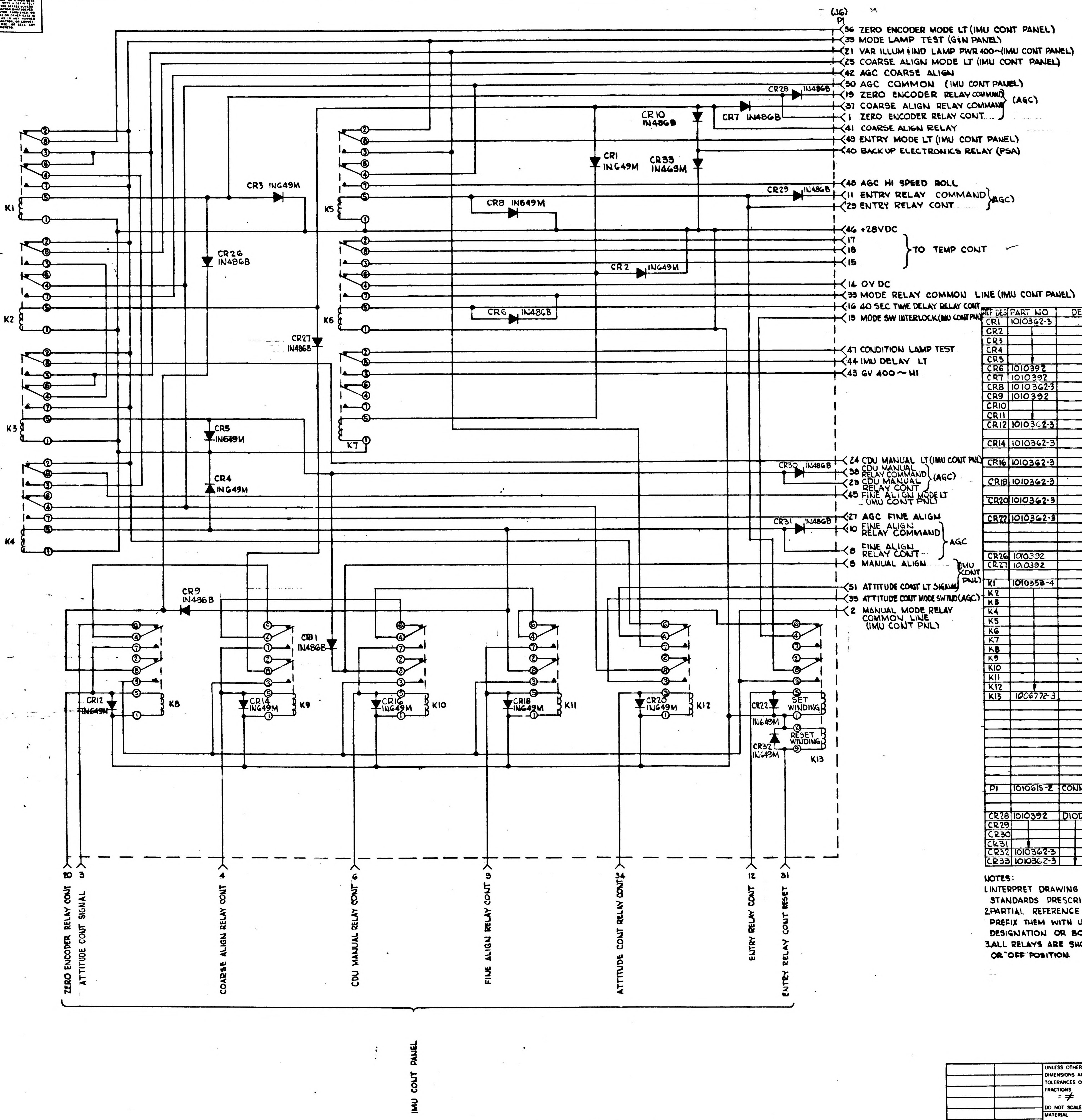
CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014623
SCALE ≠
WT
SHEET OF

1014623 F

MASTER

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVAL
REVISIONS 2A53 TDRR 00649			
B1	(B) COMPLETELY REVISED & REDRAWN TDRR 00720	10 APRIL 63	WK
C4	(C1) REMD K14 THRU K19 (C2) REMD CR13 CR15, CR17, CR19, CR21 & CR23 (C3) ADDED CR24 THRU CR32 (C4) REVISED K8 THRU K13 CIRCUIT TDRR 01351	21 MAY 63	WK
D3	(D1) REVISED TERMINALS, K8 THRU K13 (D2) ADDED P1-22,23 P2-10,16,18 (D3) REVERSED CR12, 14 16, 18 20, 22 TDRR 01386	28 MAY 63	WK.
E6	(E1) RELOCATED R10 FROM ZONE C8 TO F3 (E2) REMD P2 (1010318-4) (E3) P1 PART NO. WAS 1010318-4 (E4) REVISED PIN NO'S (E5) ADDED CR 33 & ASSOC INFO (E6) K13 WAS 1010353-5 TDRR 1494	11 JUN 63	AKB
F	(F1) PIN 39 WAS 29 (F2) PIN 17 WAS 18 (F3) PIN 18 WAS 17 (F4) K13 P/N WAS 1010436 (F5) K13-9 WAS K13-10, K13-10 WAS K13-9 (F6) P1 WAS 1010316-2 UPGRADED FOR CLASS A RELEASE TDRR 01998	JULY 63	17 July 63 WK
S	REVISED PER TDRR 03753		WR


(J6)
P1
36 ZERO ENCODER MODE LT (IMU CONT PANEL)
39 MODE LAMP TEST (G&N PANEL)
21 VAR ILLUM & IND LAMP PWR 400~ (IMU CONT PANEL)
25 COARSE ALIGN MODE LT (IMU CONT PANEL)
42 AGC COARSE ALIGN
50 AGC COMMON (IMU CONT PANEL)
19 ZERO ENCODER RELAY COMMAND
37 COARSE ALIGN RELAY COMMAND
1 ZERO ENCODER RELAY CONT
(AGC)
41 COARSE ALIGN RELAY
49 ENTRY MODE LT (IMU CONT PANEL)
40 BACK UP ELECTRONICS RELAY (PSA)
48 AGC HI SPEED ROLL
11 ENTRY RELAY COMMAND
29 ENTRY RELAY CONT
(AGC)
46 +28VDC
17
18
15
TO TEMP CONT
14 0V DC
33 MODE RELAY COMMON LINE (IMU CONT PANEL)
16 40 SEC TIME DELAY RELAY CONT
13 MODE SW INTERLOCK (IMU CONT PNL)
47 CONDITION LAMP TEST
44 IMU DELAY LT
43 GV 400~HI
24 CDU MANUAL LT (IMU CONT PNL)
38 CDU MANUAL RELAY COMMAND
23 CDU MANUAL RELAY CONT
(AGC)
45 FINE ALIGN MODE LT (IMU CONT PNL)
27 AGC FINE ALIGN
10 FINE ALIGN RELAY COMMAND
8 FINE ALIGN RELAY CONT
AGC
5 MANUAL ALIGN
(IMU CONT PNL)
51 ATTITUDE CONT LT SIGNAL
35 ATTITUDE CONT MODE SW IND (AGC)
2 MANUAL MODE RELAY COMMON LINE (IMU CONT PNL)
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
SET WINDING
RESET WINDING
CR1 1N649M
CR2 1N649M
CR3 1N649M
CR4 1N649M
CR5 1N649M
CR6 1N486B
CR7 1N486B
CR8 1N649M
CR9 1N486B
CR10 1N486B
CR11 1N486B
CR12 1N649M
CR14 1N649M
CR16 1N649M
CR18 1N649M
CR20 1N649M
CR22
CR26 1N486B
CR27 1N486B
CR28 1N486B
CR29 1N486B
CR30 1N486B
CR31 1N486B
CR32 1N649M
CR33 1N469M
18 ZERO ENCODER RELAY CONT
3 ATTITUDE CONT SIGNAL
4 COARSE ALIGN RELAY CONT
6 CDU MANUAL RELAY CONT
9 FINE ALIGN RELAY CONT
34 ATTITUDE CONT RELAY CONT
12 ENTRY RELAY CONT
31 ENTRY RELAY CONT RESET
IMU CONT PANEL

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
CR1	1010362-3	DIODE	1N649M		
CR2					
CR3					
CR4					
CR5					
CR6	1010392		1N486B		
CR7	1010392		1N486B		
CR8	1010362-3		1N649M		
CR9	1010392		1N486B		
CR10					
CR11					
CR12	1010362-3		1N649M		
CR14	1010362-3				
CR16	1010362-3				
CR18	1010362-3				
CR20	1010362-3				
CR22	1010362-3				
CR26	1010392		1N486B		
CR27	1010392		1N486B		
K1	1010353-4	RELAY			
K2					
K3					
K4					
K5					
K6					
K7					
K8					
K9					
K10					
K11					
K12					
K13	1006772-3				
P1	1010615-2	CONNECTOR			
CR28	1010392	DIODE	1N486B		
CR29					
CR30					
CR31					
CR32	1010362-3		1N649M		
CR33	1010362-3		1N649M		

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3. ALL RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ≠ DECIMALS ± ≠ ANGLES ± ≠
DO NOT SCALE THIS DRAWING
MATERIAL ≠
HEAT TREATMENT ≠
FINAL FINISH ≠

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO
CONTRACT
DRAWN R. LaDue DATE 12 MAR 63
CHECKED
APPROVAL HARRY WHEELER
APPROVAL 7/1/63
NASA APPROVAL
MIT APPROVAL 10 Jul 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RELAY & DIODE MODULE
SCHEMATIC DIAGRAM

CODE IDENT NO
SIZE E
NASA DRAWING NO. 1014623
SCALE ≠
WT
SHEET OF

MASTER

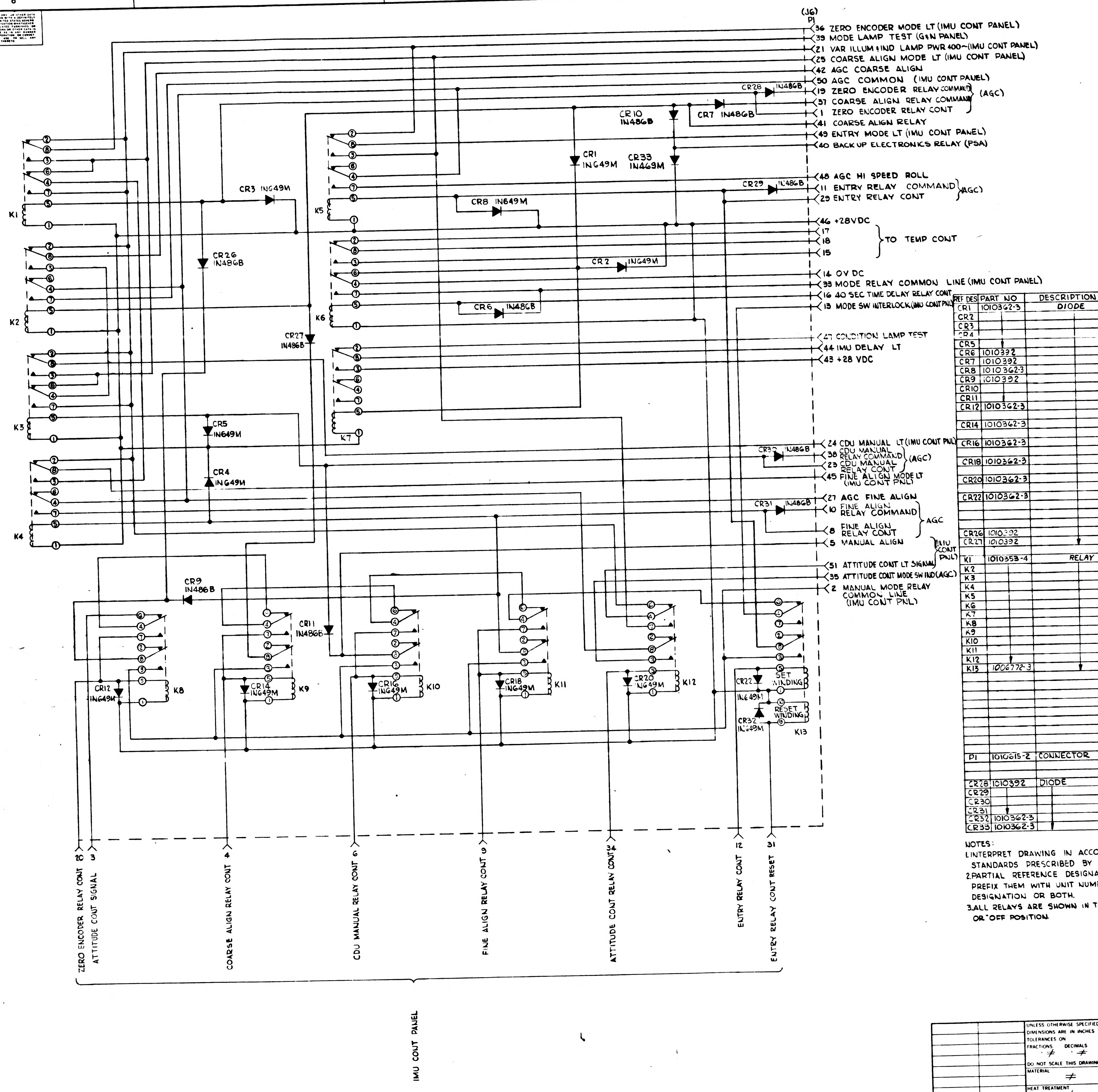
INCHES
PHOTOGRAPHIC SCALE ONLY

1014623 G

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS 2 A53 B TDRR 33649

SYM	DESCRIPTION	DATE	APPROVAL
B1	Ⓑ COMPLETELY REVISED & REDRAWN TDRR 00790	10 APRIL 63	WK
C4	Ⓒ1 REMD K14 THRU K19 Ⓒ2 REMD CR13 CR15, CR17 CR19, CR21 & CR23 Ⓒ3 ADDED CR24 THRU CR32 Ⓒ4 REVISED K8 THRU K13 CIRCUIT TDRR 01351	2 MAY 63	WK
D3	Ⓓ1 REVISED TERMINALS, K8 THRU K13 Ⓓ2 ADDED P1-22, 23 [illegible] Ⓓ3 REVERSED CR12, 14, 16, 18, 20, 22 TDRR 01386	28 MAY 63	WK.
E6	Ⓔ1 RELOCATED R10 FROM ZONE C5 TO F3 Ⓔ2 REMD P2 (1010318-4) Ⓔ3 P1 PART NO. WAS 1010318-4 Ⓔ4 REVISED PIN NO'S Ⓔ5 ADDED CR33 & ASSOC INFO. Ⓔ6 K13 WAS 1010353-5 TDRR 1454	11 JUN 63	RKB
F6	Ⓕ1 PIN 39 WAS 29. Ⓕ2 PIN 7 WAS Ⓕ3 PIN 18 WAS 17 Ⓕ4 K13 % WAS 1010436 Ⓕ5 K13-9 WAS K13-10, K13-10 WAS K13-9 Ⓕ6 P1 WAS 1010316-2 UPGRADED FOR CLASS A RELEASE TDRR 01498	9 JULY 63	17 July 63 WK
G	REVISED PER TDRR 03763		WR
H	REVISED PER TDRR 14844	21 DEC 64	JJJ W.R.


(J6)
P1
36 ZERO ENCODER MODE LT (IMU CONT PANEL)
39 MODE LAMP TEST (G&N PANEL)
21 VAR ILLUM & IND LAMP PWR 400~ (IMU CONT PANEL)
25 COARSE ALIGN MODE LT (IMU CONT PANEL)
42 AGC COARSE ALIGN
50 AGC COMMON (IMU CONT PANEL)
19 ZERO ENCODER RELAY COMMAND
37 COARSE ALIGN RELAY COMMAND
1 ZERO ENCODER RELAY CONT
(AGC)
41 COARSE ALIGN RELAY
49 ENTRY MODE LT (IMU CONT PANEL)
40 BACK UP ELECTRONICS RELAY (PSA)
48 AGC HI SPEED ROLL
11 ENTRY RELAY COMMAND
29 ENTRY RELAY CONT
(AGC)
46 +28VDC
17
18
15
TO TEMP CONT
14 OV DC
33 MODE RELAY COMMON LINE (IMU CONT PANEL)
16 40 SEC TIME DELAY RELAY CONT
13 MODE SW INTERLOCK (IMU CONT PNL)
47 CONDITION LAMP TEST
44 IMU DELAY LT
43 +28 VDC
24 CDU MANUAL LT (IMU CONT PNL)
38 CDU MANUAL RELAY COMMAND
23 CDU MANUAL RELAY CONT
(AGC)
45 FINE ALIGN MODE LT (IMU CONT PNL)
27 AGC FINE ALIGN
10 FINE ALIGN RELAY COMMAND
8 FINE ALIGN RELAY CONT
AGC
5 MANUAL ALIGN
51 ATTITUDE CONT LT SIGNAL
(IMU CONT PNL)
35 ATTITUDE CONT MODE SW IND (AGC)
2 MANUAL MODE RELAY COMMON LINE (IMU CONT PNL)
CR1 IN649M
CR2 IN649M
CR3 IN649M
CR4 IN649M
CR5 IN649M
CR6 IN486B
CR7 IN486B
CR8 IN649M
CR9 IN486B
CR10 IN486B
CR11 IN486B
CR12 IN649M
CR14 IN649M
CR16 IN649M
CR18 IN649M
CR20 IN649M
CR22 IN649M
CR26 IN486B
CR27 IN486B
CR28 IN486B
CR29 IN486B
CR30 IN486B
CR31 IN486B
CR32 IN649M
CR33 IN469M
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
SET WINDING
RESET WINDING
20 ZERO ENCODER RELAY CONT
3 ATTITUDE CONT SIGNAL
4 COARSE ALIGN RELAY CONT
6 CDU MANUAL RELAY CONT
9 FINE ALIGN RELAY CONT
34 ATTITUDE CONT RELAY CONT
12 ENTRY RELAY CONT
31 ENTRY RELAY CONT RESET
IMU CONT PANEL

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
CR1	1010362-3	DIODE	IN649M		
CR2					
CR3					
CR4					
CR5					
CR6	1010392		IN486B		
CR7	1010392		IN486B		
CR8	1010362-3		IN649M		
CR9	1010392		IN486B		
CR10					
CR11					
CR12	1010362-3		IN649M		
CR14	1010362-3				
CR16	1010362-3				
CR18	1010362-3				
CR20	1010362-3				
CR22	1010362-3				
CR26	1010392		IN486B		
CR27	1010392		IN486B		
K1	1010353-4	RELAY			
K2					
K3					
K4					
K5					
K6					
K7					
K8					
K9					
K10					
K11					
K12					
K13	1006772-3				
P1	1010615-2	CONNECTOR			
CR28	1010392	DIODE	IN486B		
CR29					
CR30					
CR31					
CR32	1010362-3		IN649M		
CR33	1010362-3		IN649M		

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3. ALL RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL ≠
HEAT TREATMENT ≠
FINAL FINISH ≠

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN R. LaDue DATE [illegible]
CHECKED
APPROVAL HARRY WHEELER
APPROVAL [illegible] 7/16/63
NASA APPROVAL [illegible]
MIT APPROVAL W Kupfer 10 Apr 63

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

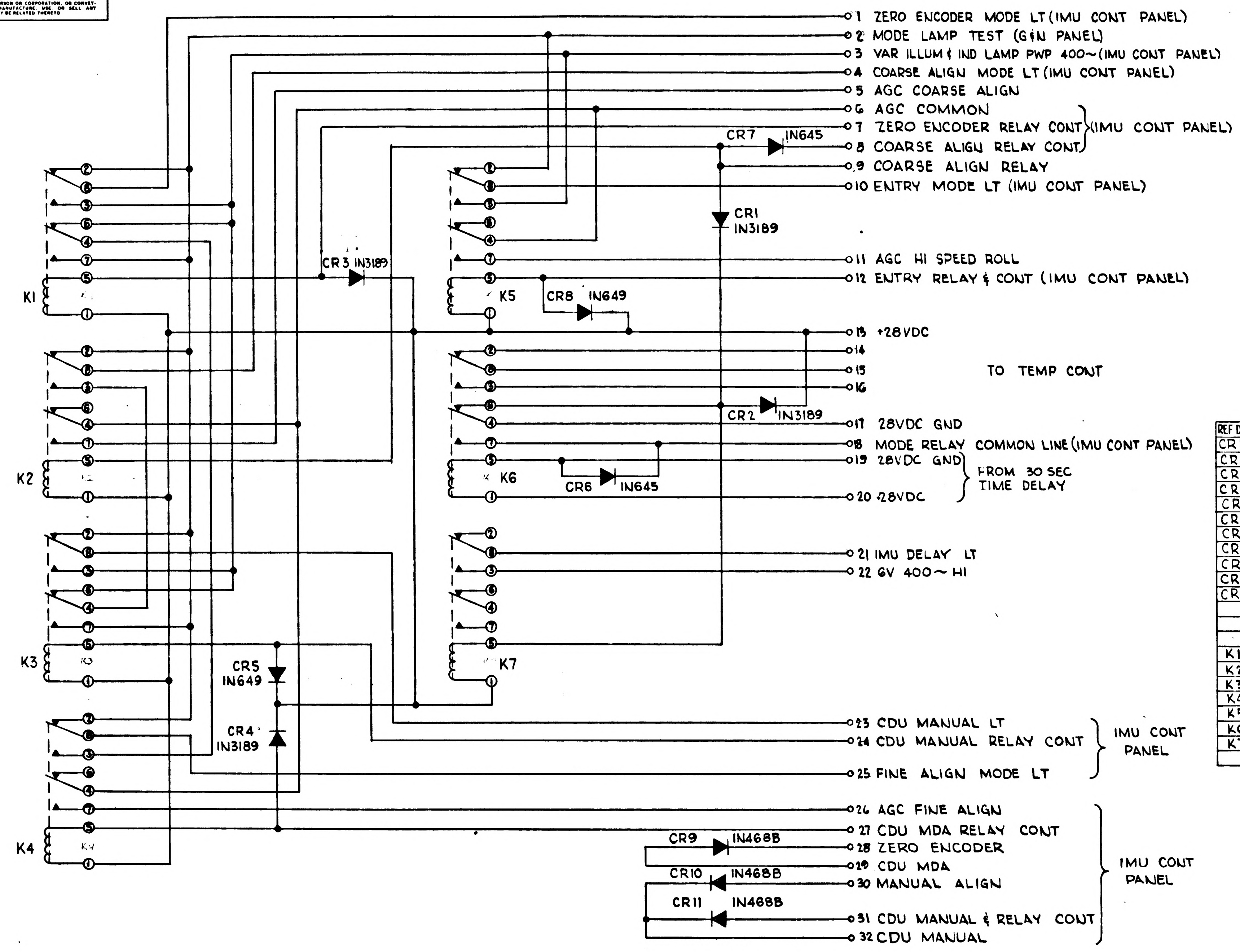
RELAY & DIODE MODULE
SCHEMATIC DIAGRAM

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014623
SCALE ≠ WT SHEET OF

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL


1 ZERO ENCODER MODE LT (IMU CONT PANEL)
2 MODE LAMP TEST (G&N PANEL)
3 VAR ILLUM & IND LAMP PWP 400~ (IMU CONT PANEL)
4 COARSE ALIGN MODE LT (IMU CONT PANEL)
5 AGC COARSE ALIGN
6 AGC COMMON
7 ZERO ENCODER RELAY CONT
8 COARSE ALIGN RELAY CONT
(IMU CONT PANEL)
9 COARSE ALIGN RELAY
10 ENTRY MODE LT (IMU CONT PANEL)
11 AGC HI SPEED ROLL
12 ENTRY RELAY & CONT (IMU CONT PANEL)
13 +28VDC
14
15
16
TO TEMP CONT
17 28VDC GND
18 MODE RELAY COMMON LINE (IMU CONT PANEL)
19 28VDC GND
20 +28VDC
FROM 30 SEC TIME DELAY
21 IMU DELAY LT
22 6V 400~ HI
23 CDU MANUAL LT
24 CDU MANUAL RELAY CONT
25 FINE ALIGN MODE LT
IMU CONT PANEL
26 AGC FINE ALIGN
27 CDU MDA RELAY CONT
28 ZERO ENCODER
29 CDU MDA
30 MANUAL ALIGN
31 CDU MANUAL & RELAY CONT
32 CDU MANUAL
IMU CONT PANEL
CR7 IN645
CR1 IN3189
CR3 IN3189
CR8 IN649
CR2 IN3189
CR6 IN645
CR5 IN649
CR4 IN3189
CR9 IN468B
CR10 IN468B
CR11 IN468B
K1
K2
K3
K4
K5
K6
K7

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00649 DATE 27 Mar 63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
CR1	1010391	DIODE	IN3189		
CR2	↓	↓	↓		
CR3	↓	↓	↓		
CR4	↓	↓	↓		
CR5	1010362-3	↓	IN649		
CR6	1010362-1	↓	IN645		
CR7	1010362-1	↓	IN645		
CR8	1010362-3	↓	IN649		
CR9	1010392	↓	IN468B		
CR10	↓	↓	↓		
CR11	↓	↓	↓		
K1	1010353	RELAY			
K2	↓	↓			
K3	↓	↓			
K4	↓	↓			
K5	↓	↓			
K6	↓	↓			
K7	↓	↓			

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION CR BOTH.

1014623

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ≠ DECIMALS ± ≠ ANGLES ± ≠
DO NOT SCALE THIS DRAWING
MATERIAL ≠
HEAT TREATMENT ≠
FINAL FINISH ≠

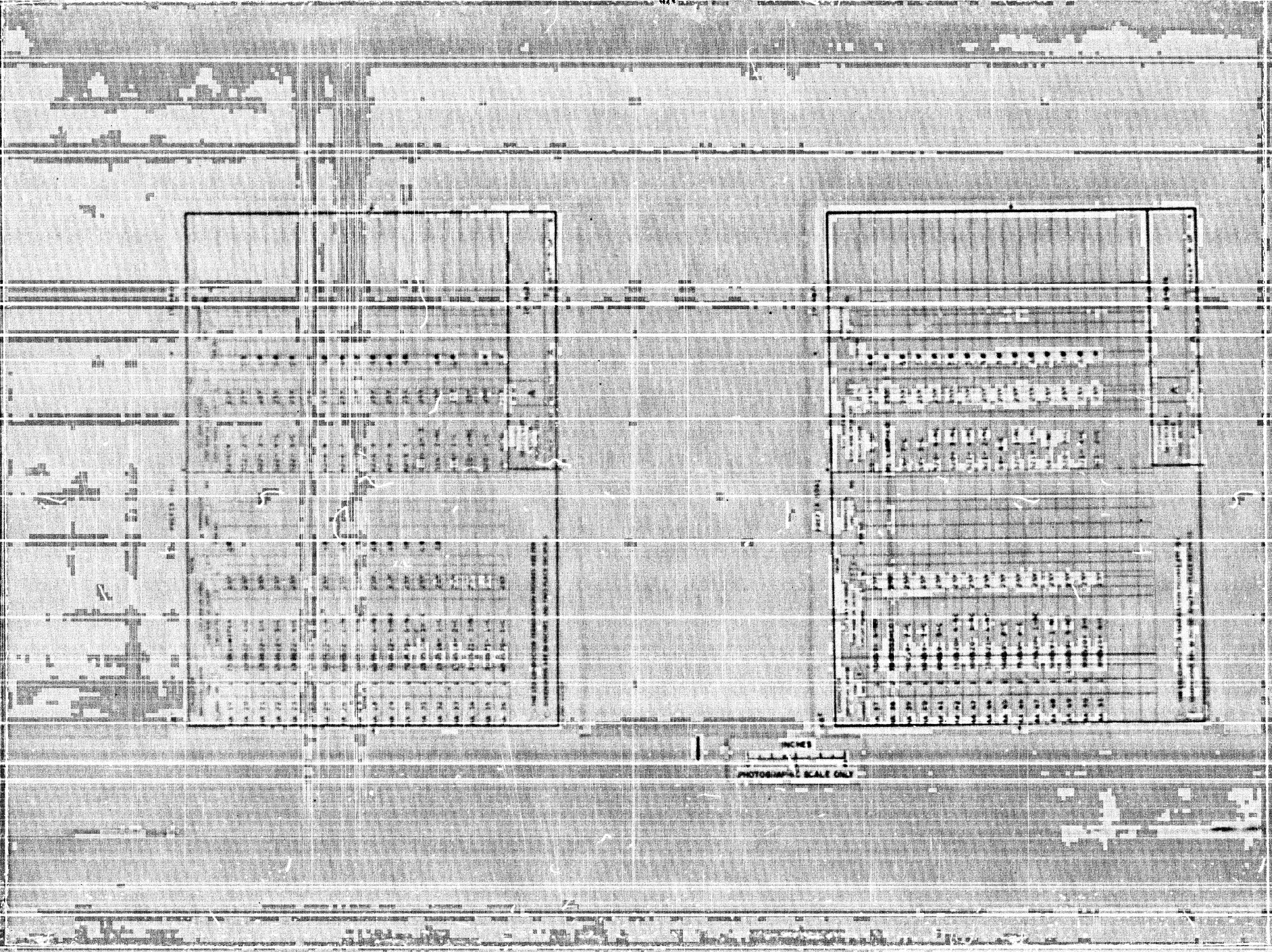
MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN R. LaDue DATE 12 MAR 63
CHECKED
APPROVAL Harry Hoeler
APPROVAL
NASA APPROVAL W. J. Rhine 3-22-63
MIT APPROVAL W Kupfer 27 Mar 63

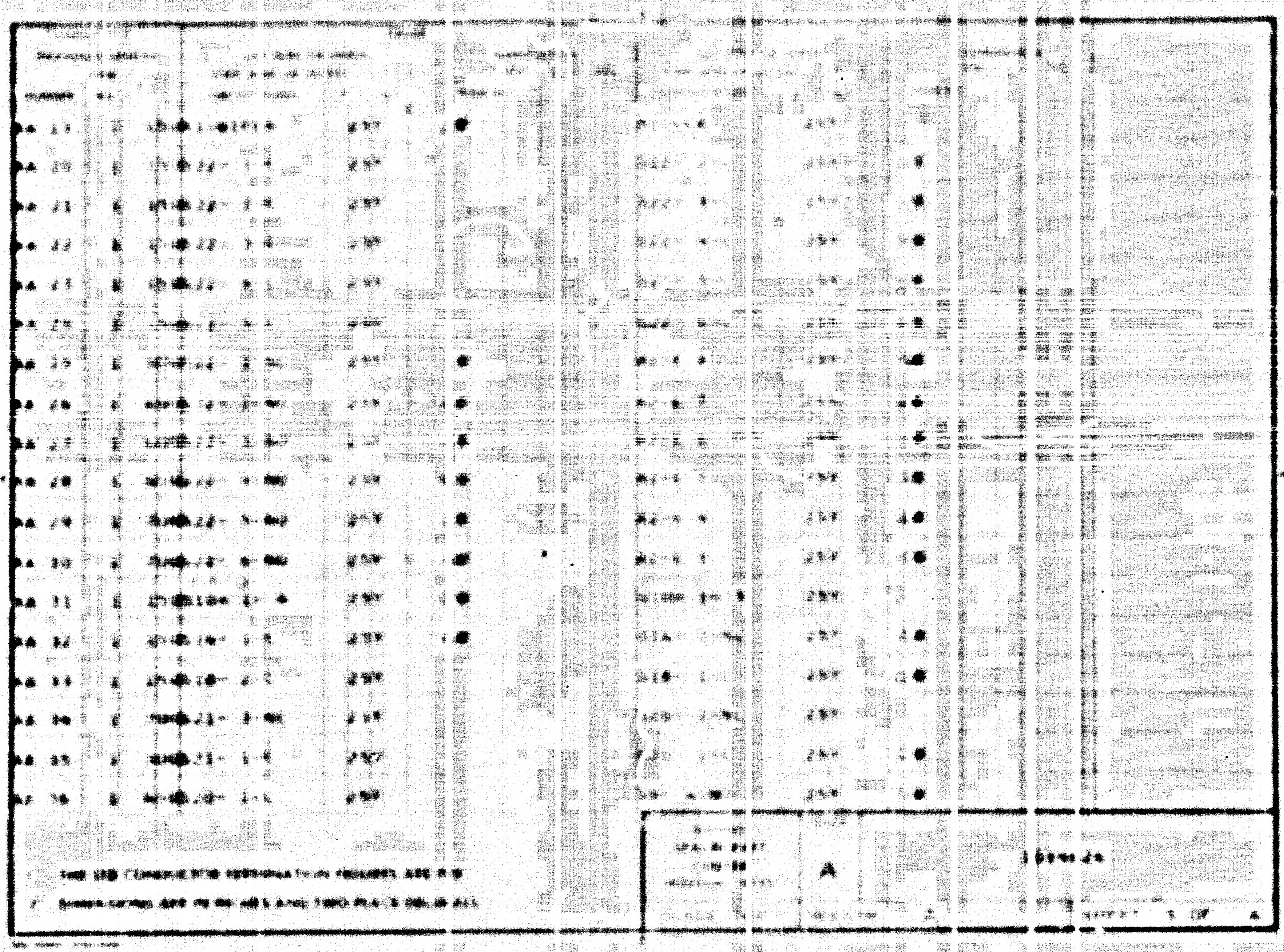
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

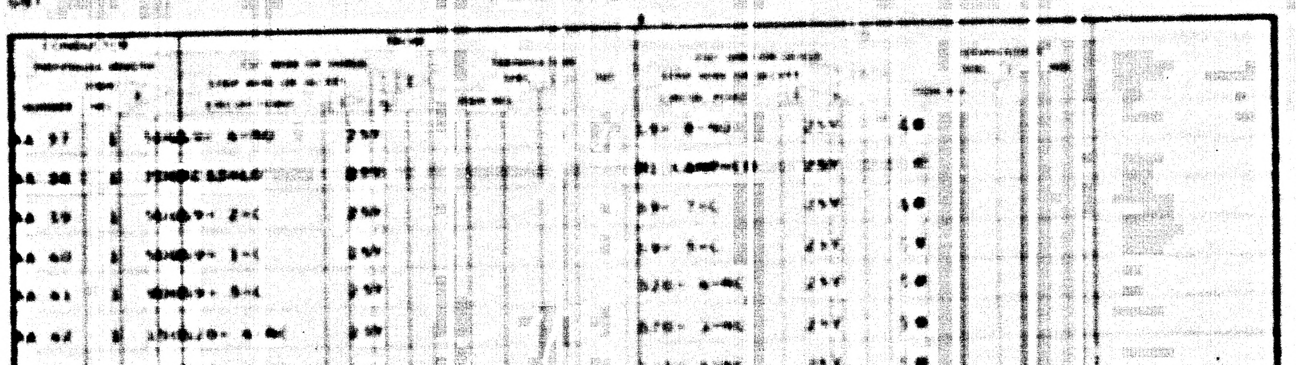
RELAY & DIODE MODULE
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014623
SCALE ≠
WT
SHEET OF

MASTER


INCHES
PHOTOGRAPHIC SCALE ONLY





INCHES

PHOTOGRAPHIC SCALE ONLY

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014578	1014578	A1	Ⓐ1 UPGRADED FOR CLASS A RELEASE TDRR 02418	5 AUG 63	WK
		B2	Ⓑ1 ITEM 1, 1014624-001, WAS 14 FT 5.25 IN. ITEM 4 WAS 36 REQD ITEM 5 WAS 17 REQD SHEET 3 Ⓑ2 AA37 "TO" ITEM NO. WAS 4. ADDED COND AA52 SH 6 TDRR 02523	13 AUG 63	WK

REV						
SHEET						
REV STATUS OF SHEETS — REV	B	+	B	A	A	B
SHEET	1	2	3	4	5	6

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN

DRAWN E. Miller DATE 29 JUL 63
CHECKED J. Sayles 30 JUL 63
APPROVAL R. J. Moran 30 JUL 63
APPROVAL [illegible] 30 JUL 63
NASA APPROVAL [illegible] 8/7/63
MIT APPROVAL [illegible] 63
CONTRACT NAS9-497

WIRE LIST A-A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO. | SIZE | 1014624 | REV B
SCALE | SHEET 1 OF 6

PENNANT

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014624-001	WIRE, PER ND1002105 24AWG WHITE. ~~14 FT 5.25~~ 15 FT .75 INCHES TOTAL LENGTH
	2	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
	3	AR	QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798)
	4	35	1010490-052	INSULATION SLEEVING HEAT SHRINK
	5	19	1010490-050	INSULATION SLEEVING HEAT SHRINK

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014624
SCALE - NONE | REV LTR B | SHEET 3 OF 6

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ②	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ② / CIRCUIT POINT ②	②	TIN	TERMINATION SPEC. ① ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ② / CIRCUIT POINT ②	②	TIN	TERMINATION SPEC ① ITEM NO.	NO.
AA 37	1	500	S9- 4-NO	25	Y			S9- 8-NO	25	Y	5~~8~~	
~~AA 38~~	~~1~~	~~700~~	~~XDS3-LO~~	~~25~~	~~Y~~			~~M1 LAMP-LO~~	~~25~~	~~Y~~	~~8~~	
AA 39	1	500	S9- 2-C	25	Y			S9- 7-C	25	Y	4~~8~~	
AA 40	1	500	S9- 1-C	25	Y			S9- 5-C	25	Y	5~~8~~	
AA 41	1	900	S9- 5-C	25	Y			S20- 4-NC	25	Y	5~~8~~	
AA 42	1	150	S20- 4-NC	25	Y			S20- 3-NC	25	Y	5~~8~~	
AA 43	1	300	S20- 3-NC	25	Y			S21- 4-NC	25	Y	5~~8~~	
AA 44	1	150	S21- 4-NC	25	Y			S21- 2-NC	25	Y	4~~8~~	
AA 45	1	500	S9- 8-C	25	Y			S9- 4-C	25	Y	5~~8~~	
AA 46	1	750	S9- 4-C	25	Y			S20- 1-NC	25	Y	5~~8~~	
AA 47	1	275	S20- 1-NC	25	Y			S21- 1-NC	25	Y	4~~8~~	
AA 48	1	500	S9- 1-NO	25	Y			S9- 5-NO	25	Y	5~~8~~	
AA 49	1	1000	S9- 5-NO	25	Y			S20- 3-C	25	Y	5~~8~~	
AA 50	1	300	S20- 3-C	25	Y			S21- 4-C	25	Y	4~~8~~	
AA 51	1	300	S20- 4-C	25	Y			S21- 2-C	25	Y	4~~8~~	
AA 52	1	750	S9-8-NO	25	Y			S20-2-NC	25	Y	5	

① THE STD CONDUCTOR TERMINATION FIGURES ARE PER
② DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014624
SCALE - NONE | REV LTR B | SHEET 6 OF 6

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

PENNANT NOTE

GENERAL NOTES

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A.B.C. AND D PER ND1002019. (ES-2475-7)

SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 2 AND 3

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

PARTIAL REF. DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

TOLERANCE CHART. UNLESS OTHERWISE SPECIFIED---

APPLICABLE LENGTH FOR WIRE OR CABLE. STRIP WIRE. STRIP JACKET. CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014624
SCALE - NONE | REV LTR C | SHEET 2 OF 6

MIL 2084 4-63

PENNANT NOTE

LIST OF MATERIALS

ITEM	QTY	PART NO	DESCRIPTION
1	1	1014624-001	WIRE. PER ND1002105 24AWG WHITE. 11 FT 2.75 INCHES TOTAL LENGTH
2	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
3	AR	QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798)
4	33	1010490-082	INSULATION SLEEVING HEAT SHRINK
5	14	1010490-080	INSULATION SLEEVING HEAT SHRINK

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014624
SCALE - NONE | REV LTR C | SHEET 3 OF 6

MIL 2084 4-63

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014578	1014578	A1	(A1) UPGRADED FOR CLASS A RELEASE TDRR D2418	8 AUG 63	WK
		B2	(B1) ITEM 1, 1014624-001, WAS 14 FT 5.25 IN. ITEM 4 WAS 36 REQD ITEM 5 WAS 17 REQD SHEET 3 (B2) AA37 "TO" ITEM NO. WAS 4, ADDED COND AA52 SH 6 TDRR 02523	13 AUG 63	WK
		C5	REVISED PER TDRR NO. 05251	30 DEC 63	WK

REV STATUS OF SHEETS	REV	C	C	C	C	C	C
	SHEET	1	2	3	4	5	6

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN E. Miller DATE 29 JUL 63
CHECKED J. Bayles 30 JUL 63
APPROVAL R. J. Monan 30 July 63
APPROVAL P. 30 JUL 63
NASA APPROVAL 8/2/63
NT APPROVAL
NTRACT NAS9-497

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST A-A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO. | SIZE | 1014624 | REV C
SCALE | SHEET 1 OF 6

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH (2)	FROM CIRCUIT POINT	STRIP WIRE OR JACKET (2)	TIN	TERMINATION SPEC. (1) ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET (2)	TIN	TERMINATION SPEC (1) ITEM NO.	NO.
AA 1	1	150	T1- 2	25	Y			T1- 3	25	Y		
AA 2	1	150	S3- 3-NO	25	Y	4		S3- 2-NO	25	Y		
AA 3	1	200	S3- 4-C	25	Y	4		S3- 2-NC	25	Y	4	
AA 4	1	200	S3- 1-C	25	Y	4		S3- 3-NC	25	Y	4	
AA 5	1	150	S16- 7-C	25	Y			S16- 8-C	25	Y	4	
AA 6	1	150	S16- 4-C	25	Y			S16- 5-C	25	Y	4	
AA 7	1	150	S16- 3-C	25	Y			S16- 2-C	25	Y	5	
AA 8	1	150	S16- 2-C	25	Y			S16- 1-C	25	Y	4	
AA 9	1	150	S15- 1-NC	25	Y			S15- 2-NO	25	Y		
AA 10	1	400	S15- 4-NC	25	Y			S15- 5-NC	25	Y	4	
~~AA 11~~	~~1~~	~~600~~	~~S11- 3-NO~~	~~25~~	~~Y~~	~~4~~		~~S11- 8-C~~	~~25~~	~~Y~~	~~4~~	
AA 12	1	150	S15- 3-NC	25	Y			S15- 4-NO	25	Y		
AA 13	1	200	S15- 1-NO	25	Y	5		S15- 3-NO	25	Y		
AA 14	1	500	S15- 1-NO	25	Y			S15- 5-NO	25	Y	5	
AA 15	1	200	S15- 6-NO	25	Y	4		S15- 5-NO	25	Y		
~~AA 16~~	~~1~~	~~150~~	~~S1- 3-NC~~	~~25~~	~~Y~~			~~S1- 1-C~~	~~25~~	~~Y~~	~~5~~	
~~AA 17~~	~~1~~	~~150~~	~~S1- 1-C~~	~~25~~	~~Y~~			~~S1- 4-C~~	~~25~~	~~Y~~		
AA 18	1	150	S17- 1-C	25	Y			S17- 2-C	25	Y		

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014624
SCALE - NONE | REV LTR C | SHEET 4 OF 6

MIL 2085 - 4-63 WIR

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

GBT PREFIX 50A1 1014624

CONDUCTOR			FROM					TO				
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD 2			TERMINATION		CUT WIRE OR SHIELD 2			TERMINATION	
NUMBER	ITEM NO.	2	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	SPEC. 1 ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	SPEC 1 ITEM NO.	NO.
AA 19	1	150	R1-WIPER	25	Y	4~~0~~		R1-CW	25	Y		
AA 20	1	150	S22- 1-C	25	Y			S22- 2-C	25	Y	5~~0~~	
AA 21	1	150	S22- 2-C	25	Y			S22- 3-C	25	Y	5~~0~~	
AA 22	1	150	S22- 3-C	25	Y			S22- 4-C	25	Y	5~~0~~	
AA 23	1	150	S22- 4-C	25	Y			S22- 5-C	25	Y	5~~0~~	
AA 24	1	150	S22- 5-C	25	Y			S22- 6-C	25	Y	4~~0~~	
AA 25	1	500	S22- 1-NO	25	Y	4~~0~~		A2-E 8	25	Y	4~~0~~	
AA 26	1	600	S22- 2-NO	25	Y	4~~0~~		A2-E 7	25	Y	4~~0~~	
AA 27	1	600	S22- 3-NO	25	Y	4~~0~~		A2-E 6	25	Y	4~~0~~	
AA 28	1	650	S22- 4-NO	25	Y	4~~0~~		A2-E 5	25	Y	4~~0~~	
AA 29	1	700	S22- 5-NO	25	Y	4~~0~~		A2-E 4	25	Y	4~~0~~	
AA 30	1	700	S22- 6-NO	25	Y	4~~0~~		A2-E 3	25	Y	4~~0~~	
AA 31	1	150	S10-4 ~~S10- 1- 4~~	25	Y	4~~0~~		S10-3 ~~S10- 1- 3~~	25	Y		
AA 32	1	150	S14- 1-C	25	Y	4~~0~~		S14- 2-NC	25	Y	4~~0~~	
AA 33	1	150	S18- 2-C	25	Y			S18- 1-C	25	Y	4~~0~~	
AA 34	1	300	S21- 3-NC	25	Y			S20- 2-NC	25	Y		
AA 35	1	300	S21- 1-C	25	Y			S20- 1-C	25	Y	5~~0~~	
~~AA 36~~	~~1~~	~~450~~	~~S20- 1-C~~	~~25~~	~~Y~~			~~S9- 4-NO~~	~~25~~	~~Y~~	~~5~~~~0~~	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014624
SCALE - NONE	REV LTR C	SHEET 5 OF 6

MIL 2085 - 4-63 W'R

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GBT PREFIX 50A1 1014624

CONDUCTOR			FROM					TO				
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD 2			TERMINATION		CUT WIRE OR SHIELD 2			TERMINATION	
NUMBER	ITEM NO.	2	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	SPEC. 1 ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	SPEC 1 ITEM NO.	NO.
AA 37	1	500	S9- 4-NO	25	Y			S9- 8-NO	25	Y	5~~0~~	
~~AA 38~~	~~1~~	~~700~~	~~XDS3-LO~~	~~25~~	~~Y~~			~~M1 LAMP-LO~~	~~25~~	~~Y~~	~~8~~	
AA 39	1	500	S9- 2-C	25	Y			S9- 7-C	25	Y	4~~0~~	
AA 40	1	500	S9- 1-C	25	Y			S9- 5-C	25	Y	5~~0~~	
~~AA 41~~	~~1~~	~~900~~	~~S9- 5-C~~	~~25~~	~~Y~~			~~S20- 4-NC~~	~~25~~	~~Y~~	~~5~~~~0~~	
AA 42	1	150	S20- 4-NC	25	Y			S20- 3-NC	25	Y	5~~0~~	
AA 43	1	300	S20- 3-NC	25	Y			S21- 4-NC	25	Y	5~~0~~	
AA 44	1	150	S21- 4-NC	25	Y			S21- 2-NC	25	Y	4~~0~~	
AA 45	1	500	S9- 8-C	25	Y			S9- 4-C	25	Y	5~~0~~	
~~AA 46~~	~~1~~	~~750~~	~~S9- 4-C~~	~~25~~	~~Y~~			~~S20- 1-NC~~	~~25~~	~~Y~~	~~5~~~~0~~	
AA 47	1	275	S20- 1-NC	25	Y			S21- 1-NC	25	Y	4~~0~~	
AA 48	1	500	S9- 1-NO	25	Y			S9- 5-NO	25	Y	5~~0~~	
~~AA 49~~	~~1~~	~~1000~~	~~S9- 5-NO~~	~~25~~	~~Y~~			~~S20- 3-C~~	~~25~~	~~Y~~	~~5~~~~0~~	
AA 50	1	300	S20- 3-C	25	Y			S21- 4-C	25	Y	4~~0~~	
AA 51	1	300	S20- 4-C	25	Y			S21- 2-C	25	Y	4~~0~~	
AA 52	1	750	S9-8-NO	25	Y			S20-2-NC	25	Y	5	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014624
SCALE - NONE	REV LTR C	SHEET 6 OF 6

MIL 2085 - 4-63 W'R

GBT PREFIX 50A1 1014624

PENNANT NOTE

GENERAL NOTES

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A,B,C, AND D PER ND1002019. # (ES-2475-7)

SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 2 AND 3

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

PARTIAL REF. DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGINATION PREFIX WITH 50A1

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014624
SCALE - NONE	REV LTR C	SHEET 2 OF 6

MIL 2084 4-63

GBT PREFIX 50A1 1014624

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014624-001	WIRE, PER ND1002105 24AWG WHITE. 11 FT 2.75 INCHES TOTAL LENGTH
	2	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
	3	AR	QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798)
	4	30	1010490-082	INSULATION SLEEVING HEAT SHRINK
	5	14	1010490-080	INSULATION SLEEVING HEAT SHRINK

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014624
SCALE - NONE	REV LTR D	SHEET 3 OF 6

MIL 2084 4-63

APPLICATION NEXT ASSY	APPLICATION USED ON	REVISIONS SYM	DESCRIPTION	DATE	APPROVAL
1014578	1014578	A₁	(A₁) UPGRADED FOR CLASS A RELEASE TDRR D2418	8 AUG 63	WK
		B₂	(B₁) ITEM 1, 1014624-001, WAS 14 FT 5.28 IN. ITEM 4 WAS 36 REQD ITEM 5 WAS 17 REQD SHEET 3 (B₂) AA37 "TO" ITEM NO. WAS 4. ADDED COND AA62 SH 6 TDRR 02523	13 AUG 63	WK
		C₅	REVISED PER TDRR NO. 05251	30 DEC 63	WK
		D₃	REVISED PER TDRR NO. 06371	25 FEB 64	

REV STATUS OF SHEETS						
REV	D	C	D	D	C	C
SHEET	1	2	3	4	5	6

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN E. Miller DATE 29 JUL 63
CHECKED [illegible] 30 JUL 63
APPROVAL [illegible] Moran 30 July 63
APPROVAL [illegible] 30 JUL 63
NASA APPROVAL [illegible] 8/7/63
MIT APPROVAL [illegible]
CONTRACT NAS9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST A-A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO. SIZE 1014624 REV D

SCALE SHEET 1 OF 6

GBT PREFIX 50A1 1014624

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
AA 1	1	150	T1- 2	25	Y			T1- 3	25	Y		
~~AA 2~~	~~1~~	~~150~~	~~S3- 3-NO~~	~~25~~	~~Y~~	~~4~~		~~S3- 2-NO~~	~~25~~	~~Y~~		
~~AA 3~~	~~1~~	~~200~~	~~S3- 4-C~~	~~25~~	~~Y~~	~~4~~		~~S3- 2-NC~~	~~25~~	~~Y~~	~~4~~	
AA 4	1	200	S3- 1-C	25	Y	4		S3- 2-NC	25	Y	4	
AA 5	1	150	S16- 7-C	25	Y			S16- 8-C	25	Y	4	
AA 6	1	150	S16- 4-C	25	Y			S16- 5-C	25	Y	4	
AA 7	1	150	S16- 3-C	25	Y			S16- 2-C	25	Y	5	
AA 8	1	150	S16- 2-C	25	Y			S16- 1-C	25	Y	4	
AA 9	1	150	S15- 1-NC	25	Y			S15- 2-NO	25	Y		
AA 10	1	400	S15- 4-NC	25	Y			S15- 5-NC	25	Y	4	
~~AA 11~~	~~1~~	~~600~~	~~S11- 3-NO~~	~~25~~	~~Y~~	~~4~~		~~S11- 8-C~~	~~25~~	~~Y~~	~~4~~	
AA 12	1	150	S15- 3-NC	25	Y			S15- 4-NO	25	Y		
AA 13	1	200	S15- 1-NO	25	Y	5		S15- 3-NO	25	Y		
AA 14	1	500	S15- 1-NO	25	Y			S15- 5-NO	25	Y	5	
AA 15	1	200	S15- 6-NO	25	Y	4		S15- 5-NO	25	Y		
~~AA 16~~	~~1~~	~~150~~	~~S1- 3-NC~~	~~25~~	~~Y~~			~~S1- 1-C~~	~~25~~	~~Y~~	~~5~~	
~~AA 17~~	~~1~~	~~150~~	~~S1- 1-C~~	~~25~~	~~Y~~			~~S1- 4-C~~	~~25~~	~~Y~~		
AA 18	1	150	S17- 1-C	25	Y			S17- 2-C	25	Y		

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014624
SCALE - NONE	REV LTR D	SHEET 4 OF 6

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GBT PREFIX 50A1 1014624

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2▷	T I N	TERMINATION SPEC. 1▷ ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2▷	T I N	TERMINATION SPEC 1▷ ITEM NO.	NO.
AA 19	1	150	R1-WIPER	25	Y	40		R1-CW	25	Y		
AA 20	1	150	S22- 1-C	25	Y			S22- 2-C	25	Y	50	
AA 21	1	150	S22- 2-C	25	Y			S22- 3-C	25	Y	50	
AA 22	1	150	S22- 3-C	25	Y			S22- 4-C	25	Y	50	
AA 23	1	150	S22- 4-C	25	Y			S22- 5-C	25	Y	50	
AA 24	1	150	S22- 5-C	25	Y			S22- 6-C	25	Y	40	
AA 25	1	500	S22- 1-NO	25	Y	40		A2-E 8	25	Y	40	
AA 26	1	600	S22- 2-NO	25	Y	40		A2-E 7	25	Y	40	
AA 27	1	600	S22- 3-NO	25	Y	40		A2-E 6	25	Y	40	
AA 28	1	650	S22- 4-NO	25	Y	40		A2-E 5	25	Y	40	
AA 29	1	700	S22- 5-NO	25	Y	40		A2-E 4	25	Y	40	
AA 30	1	700	S22- 6-NO	25	Y	40		A2-E 3	25	Y	40	
AA 31	1	150	S10-4 ~~S10- 1-4~~	25	Y	40		S10-3 ~~S10- 1-3~~	25	Y		
AA 32	1	150	S14- 1-C	25	Y	40		S14- 2-NC	25	Y	40	
AA 33	1	150	S18- 2-C	25	Y			S18- 1-C	25	Y	40	
AA 34	1	300	S21- 3-NC	25	Y			S20- 2-NC	25	Y		
AA 35	1	300	S21- 1-C	25	Y			S20- 1-C	25	Y	50	
~~AA 36~~	~~1~~	~~450~~	~~S20- 1-C~~	~~25~~	~~Y~~			~~S9- 4-NO~~	~~25~~	~~Y~~	~~50~~	

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014624	
SCALE - NONE	REV LTR C		SHEET 5 OF 6

MIL 2085 - 4-63 WIR

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

GBT PREFIX 50A1 1014624

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2▷	T I N	TERMINATION SPEC. 1▷ ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2▷	T I N	TERMINATION SPEC 1▷ ITEM NO.	NO.
AA 37	1	500	S9- 4-NO	25	Y			S9- 8-NO	25	Y	50	
~~AA 38~~	~~1~~	~~700~~	~~XDS3-LO~~	~~25~~	~~Y~~			~~M1 LAMP-LO~~	~~25~~	~~Y~~	~~8~~	
AA 39	1	500	S9- 2-C	25	Y			S9- 7-C	25	Y	40	
AA 40	1	500	S9- 1-C	25	Y			S9- 5-C	25	Y	50	
~~AA 41~~	~~1~~	~~900~~	~~S9- 5-C~~	~~25~~	~~Y~~			~~S20- 4-NC~~	~~25~~	~~Y~~	~~50~~	
AA 42	1	150	S20- 4-NC	25	Y			S20- 3-NC	25	Y	50	
AA 43	1	300	S20- 3-NC	25	Y			S21- 4-NC	25	Y	50	
AA 44	1	150	S21- 4-NC	25	Y			S21- 2-NC	25	Y	40	
AA 45	1	500	S9- 8-C	25	Y			S9- 4-C	25	Y	50	
~~AA 46~~	~~1~~	~~750~~	~~S9- 4-C~~	~~25~~	~~Y~~			~~S20- 1-NC~~	~~25~~	~~Y~~	~~50~~	
AA 47	1	275	S20- 1-NC	25	Y			S21- 1-NC	25	Y	40	
AA 48	1	500	S9- 1-NO	25	Y			S9- 5-NO	25	Y	50	
~~AA 49~~	~~1~~	~~1000~~	~~S9- 5-NO~~	~~25~~	~~Y~~			~~S20- 3-C~~	~~25~~	~~Y~~	~~50~~	
AA 50	1	300	S20- 3-C	25	Y			S21- 4-C	25	Y	40	
AA 51	1	300	S20- 4-C	25	Y			S21- 2-C	25	Y	40	
AA 52	1	750	S9-8-NO	25	Y			S20-2-NC	25	Y	5	

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014624	
SCALE - NONE	REV LTR C		SHEET 6 OF 6

MIL 2085 - 4-63 WIR

APPLICATION	
NEXT ASSY	USED ON
1014578	1014578

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A₁	Ⓐ₁ UPGRADED FOR CLASS A RELEASE TDRR 02418	5 AUG 63	WK
B₂	Ⓑ₁ ITEM 1, 1014624-001, WAS 14 FT 5.25 IN. ITEM 4 WAS 36 REQD ITEM 5 WAS 17 REQD SHEET 3 Ⓑ₂ AA37 "TO" ITEM NO. WAS 4. ADDED COND AA52 SH 6 TDRR 02523	13 AUG 63	WK
C₅	REVISED PER TDRR NO. 05251	30 DEC 63	WK
D₃	REVISED PER TDRR NO. 06371	25 FEB 64	
E	REVISED PER TDRR 11201	6 AUG 64	JWP CP

REV STATUS OF SHEETS							
REV	E	C	E	D	E	C
SHEET	1	2	3	4	5	6

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN

DRAWN E. Miller DATE 29 JUL 63
CHECKED 30 JUL 63
APPROVAL Moran 30 JUL 63
APPROVAL 30 JUL 63
NASA APPROVAL 8/7/63
MIT APPROVAL
CONTRACT NAS9-497

WIRE LIST A-A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.
SIZE
1014624
REV E
SCALE
SHEET 1 OF 6

PENNANT NOTE

GENERAL NOTES

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A,B,C, AND D PER ND1002019. (ES-2475-7)

SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 2 AND 3

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

PARTIAL REF. DESIGINATIONS ARE SHOWN. FOR COMPLETE DESIGINATION PREFIX WITH 50A1

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014624
SCALE - NONE
REV LTR C
SHEET 2 OF 6

PENNANT

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014624-001	WIRE, ~~PER ND1002105~~ 1010685-1 (24AWG WHITE.) ~~11~~ 7 FT ~~8.75~~ 6 INCHES TOTAL LENGTH
	2	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
	3	AR	QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2796)
	4	17	1010430-082	INSULATION SLEEVING HEAT SHRINK
	5	10	1010430-080	INSULATION SLEEVING HEAT SHRINK

MANNED SPACECRAFT CENTER HOUSTON TEXAS
SIZE A
1014624
SCALE - NONE
REV LTR E ~~D~~
SHEET 3 OF 6

CONDUCTOR NUMBER	ITEM NO	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET / CUT WIRE OR SHIELD / T-N	FROM TERMINATION SPEC ITEM NO	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET / CUT WIRE OR SHIELD / T-N	TO TERMINATION SPEC ITEM NO
AA 1	1	150	T1- 2	25Y		T1- 3	25Y	
~~AA 2~~	~~1~~	~~150~~	~~S3- 3-NO~~	~~25Y~~	~~4~~	~~S3- 2-NO~~	~~25Y~~	
~~AA 3~~	~~1~~	~~200~~	~~S3- 4-C~~	~~25Y~~	~~4~~	~~S3- 2-NC~~	~~25Y~~	~~4~~
AA 4	1	200	S3- 1-C	25Y	4	S3- 2-NC	25Y	4
AA 5	1	150	S16- 7-C	25Y		S16- 8-C	25Y	4
AA 6	1	150	S16- 4-C	25Y		S16- 5-C	25Y	4
AA 7	1	150	S16- 3-C	25Y		S16- 2-C	25Y	5
AA 8	1	150	S16- 2-C	25Y		S16- 1-C	25Y	4
AA 9	1	150	S15- 1-NC	25Y		S15- 2-NO	25Y	
AA 10	1	400	S15- 4-NC	25Y		S15- 5-NC	25Y	4
~~AA 11~~	~~1~~	~~600~~	~~S11- 3-NO~~	~~25Y~~	~~4~~	~~S11- 8-C~~	~~25Y~~	~~4~~
AA 12	1	150	S15- 3-NC	25Y		S15- 4-NO	25Y	
AA 13	1	200	S15- 1-NO	25Y	5	S15- 3-NO	25Y	
AA 14	1	500	S15- 1-NO	25Y		S15- 5-NO	25Y	5
AA 15	1	200	S15- 6-NO	25Y	4	S15- 5-NO	25Y	
~~AA 16~~	~~1~~	~~150~~	~~S1- 3-NC~~	~~25Y~~		~~S1- 1-C~~	~~25Y~~	~~5~~
~~AA 17~~	~~1~~	~~150~~	~~S1- 1-C~~	~~25Y~~		~~S1- 4-C~~	~~25Y~~	
AA 18	1	150	S17- 1-C	25Y		S17- 2-C	25Y	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON TEXAS
SIZE A
1014624
SCALE - NONE
REV LTR D
SHEET 4 OF 6

CONDUCTOR NUMBER	ITEM NO	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET / CUT WIRE OR SHIELD / T-N	FROM TERMINATION SPEC ITEM NO	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET / CUT WIRE OR SHIELD / T-N	TO TERMINATION SPEC ITEM NO
AA 19	1	150	R1-WIPER	25Y	4	R1-CW	25Y	
~~AA 20~~	~~1~~	~~150~~	~~S22- 1-C~~	~~25Y~~		~~S22- 2-C~~	~~25Y~~	~~5~~
~~AA 21~~	~~1~~	~~150~~	~~S22- 2-C~~	~~25Y~~		~~S22- 3-C~~	~~25Y~~	~~5~~
~~AA 22~~	~~1~~	~~150~~	~~S22- 3-C~~	~~25Y~~		~~S22- 4-C~~	~~25Y~~	~~5~~
~~AA 23~~	~~1~~	~~150~~	~~S22- 4-C~~	~~25Y~~		~~S22- 5-C~~	~~25Y~~	~~5~~
~~AA 24~~	~~1~~	~~150~~	~~S22- 5-C~~	~~25Y~~		~~S22- 6-C~~	~~25Y~~	~~4~~
~~AA 25~~	~~1~~	~~500~~	~~S22- 1-NO~~	~~25Y~~	~~4~~	~~A2-E 2~~	~~25Y~~	~~4~~
~~AA 26~~	~~1~~	~~600~~	~~S22- 2-NO~~	~~25Y~~	~~4~~	~~A2-E 7~~	~~25Y~~	~~4~~
~~AA 27~~	~~1~~	~~600~~	~~S22- 3-NO~~	~~25Y~~	~~4~~	~~A2-E 6~~	~~25Y~~	~~4~~
~~AA 28~~	~~1~~	~~650~~	~~S22- 4-NO~~	~~25Y~~	~~4~~	~~A2-E 5~~	~~25Y~~	~~4~~
~~AA 29~~	~~1~~	~~700~~	~~S22- 5-NO~~	~~25Y~~	~~4~~	~~A2-E 4~~	~~25Y~~	~~4~~
~~AA 30~~	~~1~~	~~700~~	~~S22- 6-NO~~	~~25Y~~	~~4~~	~~A2-E 3~~	~~25Y~~	~~4~~
AA 31	1	150	S10-4 ~~S10- 1-4~~	25Y	4	S10-3 ~~S10- 1-3~~	25Y	
AA 32	1	150	S14- 1-C	25Y	4	S14- 2-NC	25Y	4
AA 33	1	150	S18- 2-C	25Y		S18- 1-C	25Y	4
AA 34	1	300	S21- 3-NC	25Y		S20- 2-NC	25Y	
AA 35	1	300	S21- 1-C	25Y		S20- 1-C	25Y	5
~~AA 36~~	~~1~~	~~450~~	~~S20- 1-C~~	~~25Y~~		~~S9- 4-NO~~	~~25Y~~	~~5~~

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON TEXAS
SIZE A
1014624
SCALE - NONE
REV LTR E ~~D~~
SHEET 5 OF 6

GBT

PREFIX 50A1

1014624

CONDUCTOR			FROM						TO					
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD STRIP WIRE OR JACKET			TERMINATION			CUT WIRE OR SHIELD STRIP WIRE OR JACKET			TERMINATION		
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	T N 3	ITEM NO.	SPEC 1	NO.	CIRCUIT POINT	2	T N 2	ITEM NO.	SPEC 1	NO.
AA 37	1	500	S9- 4-NO	25Y					S9- 8-NO	25Y		5#		
~~AA 38~~	~~1~~	~~700~~	~~XDS3-LO~~	~~25Y~~					~~M1 LAMP-LO~~	~~25Y~~		~~8~~		
AA 39	1	500	S9- 2-C	25Y					S9- 7-C	25Y		4#		
AA 40	1	500	S9- 1-C	25Y					S9- 5-C	25Y		5#		
~~AA 41~~	~~1~~	~~900~~	~~S9- 3-C~~	~~25Y~~					S20- 4-NC	25Y		5#		
AA 42	1	150	S20- 4-NC	25Y					S20- 3-NC	25Y		5#		
AA 43	1	300	S20- 3-NC	25Y					S21- 4-NC	25Y		5#		
AA 44	1	150	S21- 4-NC	25Y					S21- 2-NC	25Y		4#		
AA 45	1	500	S9- 8-C	25Y					S9- 4-C	25Y		5#		
~~AA 46~~	~~1~~	~~750~~	~~S9- 6-C~~	~~25Y~~					S20- 1-NC	25Y		5#		
AA 47	1	275	S20- 1-NC	25Y					S21- 1-NC	25Y		4#		
AA 48	1	500	S9- 1-NO	25Y					S9- 5-NO	25Y		5#		
~~AA 49~~	~~1~~	~~1000~~	~~S9- 5-NO~~	~~25Y~~					S20- 3-C	25Y		5#		
AA 50	1	300	S20- 3-C	25Y					S21- 4-C	25Y		4#		
AA 51	1	300	S20- 4-C	25Y					S21- 2-C	25Y		4#		
AA 52	1	[illegible]	S2- 8-NC	25Y					S20-2-N[illegible]	25Y		5		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2015 [illegible] WIR

MANNED SPACECRAFT CENTER HOUSTON TEXAS	SIZE A	1014624
SCALE - NONE	REV LTR C	SHEET 6 OF 6

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014578	1014578	A,	(A,) UPGRADED FOR CLASS A RELEASE TDRR D2418	5 AUG 63	WK

REV STATUS OF SHEETS						
REV	A	+	A	A	A	A
SHEET	1	2	3	4	5	6

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN E. Miller DATE 29 JUL 63
CHECKED 30 JUL 63
APPROVAL Moran 30 July 63
APPROVAL 30 JUL 63
NASA APPROVAL 8/7/63
MIT APPROVAL 63
CONTRACT NAS9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST A-A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO. SIZE 1014624 REV A
SCALE SHEET 1 OF 6

PENNANT NOTE

GENERAL NOTES

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A,B,C, AND D PER ND . (ES-2475-7)

SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 2 AND 3

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

PARTIAL REF. DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1014624
SCALE - NONE REV LTR + SHEET 2 OF 6

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014624-001	WIRE, PER ND1002105 24AWG WHITE. 14 FT 5.25 INCHES TOTAL LENGTH
	2	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
	3	AR	QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798)
	4	36	1010490-052	INSULATION SLEEVING HEAT SHRINK
	5	17	1010490-050	INSULATION SLEEVING HEAT SHRINK

MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1014624
SCALE - NONE REV LTR A SHEET 3 OF 6

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH (2)	FROM: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	(2)	TIN	FROM: TERMINATION SPEC. (1) ITEM NO.	TO: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	(2)	TIN	TO: TERMINATION SPEC (1) ITEM NO.
AA 1	1	150	T1- 2	25	Y		T1- 3	25	Y	
AA 2	1	150	S3- 3-NO	25	Y	4	S3- 2-NO	25	Y	
AA 3	1	200	S3- 4-C	25	Y	4	S3- 2-NC	25	Y	4
AA 4	1	200	S3- 1-C	25	Y	4	S3- 3-NC	25	Y	4
AA 5	1	150	S16- 7-C	25	Y		S16- 8-C	25	Y	4
AA 6	1	150	S16- 4-C	25	Y		S16- 5-C	25	Y	4
AA 7	1	150	S16- 3-C	25	Y		S16- 2-C	25	Y	5
AA 8	1	150	S16- 2-C	25	Y		S16- 1-C	25	Y	4
AA 9	1	150	S15- 1-NC	25	Y		S15- 2-NO	25	Y	
AA 10	1	400	S15- 4-NC	25	Y		S15- 5-NC	25	Y	4
AA 11	1	600	S11- 3-NO	25	Y	4	S11- 8-C	25	Y	4
AA 12	1	150	S15- 3-NC	25	Y		S15- 4-NO	25	Y	
AA 13	1	200	S15- 1-NO	25	Y	5	S15- 3-NO	25	Y	
AA 14	1	500	S15- 1-NO	25	Y		S15- 5-NO	25	Y	5
AA 15	1	200	S15- 6-NO	25	Y	4	S15- 5-NO	25	Y	
~~AA 16~~	~~1~~	~~150~~	~~S1- 3-NC~~	~~25~~	~~Y~~		~~S1- 1-C~~	~~25~~	~~Y~~	~~5~~
AA 17	1	150	S1- 1-C	25	Y		S1- 4-C	25	Y	
AA 18	1	150	S17- 1-C	25	Y		S17- 2-C	25	Y	

(1) THE STD CONDUCTOR TERMINATION FIGURES ARE PER
(2) DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1014624
SCALE - NONE REV LTR A SHEET 4 OF 6

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GBT PREFIX 50A1 1014624

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA 19	1	150	R1-WIPER	25	Y	4		R1-CCW	25	Y		
AA 20	1	150	S22- 1-C	25	Y			S22- 2-C	25	Y	5	
AA 21	1	150	S22- 2-C	25	Y			S22- 3-C	25	Y	5	
AA 22	1	150	S22- 3-C	25	Y			S22- 4-C	25	Y	5	
AA 23	1	150	S22- 4-C	25	Y			S22- 5-C	25	Y	5	
AA 24	1	150	S22- 5-C	25	Y			S22- 6-C	25	Y	4	
AA 25	1	500	S22- 1-NO	25	Y	4		A2-E 8	25	Y	4	
AA 26	1	600	S22- 2-NO	25	Y	4		A2-E 7	25	Y	4	
AA 27	1	600	S22- 3-NO	25	Y	4		A2-E 6	25	Y	4	
AA 28	1	650	S22- 4-NO	25	Y	4		A2-E 5	25	Y	4	
AA 29	1	700	S22- 5-NO	25	Y	4		A2-E 4	25	Y	4	
AA 30	1	700	S22- 6-NO	25	Y	4		A2-E 3	25	Y	4	
AA 31	1	150	S10-4 ~~S10-1-4~~	25	Y	4		S10-3 ~~S10-1-3~~	25	Y		
AA 32	1	150	S14- 1-C	25	Y	4		S14- 2-NC	25	Y	4	
AA 33	1	150	S18- 2-C	25	Y			S18- 1-C	25	Y	4	
AA 34	1	300	S21- 3-NC	25	Y			S20- 2-NC	25	Y		
AA 35	1	300	S21- 1-C	25	Y			S20- 1-C	25	Y	5	
AA 36	1	450	S20- 1-C	25	Y			S9- 4-NO	25	Y	5	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014624
SCALE - NONE	REV LTR A	SHEET 5 OF 6

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GBT PREFIX 50A1 1014624

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.
AA 37	1	500	S9- 4-NO	25	Y			S9- 8-NO	25	Y	4	
~~AA 38~~	~~1~~	~~700~~	~~XDS3-LO~~	~~25~~	~~Y~~			~~M1 LAMP-LO~~	~~25~~	~~Y~~	~~8~~	
AA 39	1	500	S9- 2-C	25	Y			S9- 7-C	25	Y	4	
AA 40	1	500	S9- 1-C	25	Y			S9- 5-C	25	Y	5	
AA 41	1	900	S9- 5-C	25	Y			S20- 4-NC	25	Y	5	
AA 42	1	150	S20- 4-NC	25	Y			S20- 3-NC	25	Y	5	
AA 43	1	300	S20- 3-NC	25	Y			S21- 4-NC	25	Y	5	
AA 44	1	150	S21- 4-NC	25	Y			S21- 2-NC	25	Y	4	
AA 45	1	500	S9- 8-C	25	Y			S9- 4-C	25	Y	5	
AA 46	1	750	S9- 4-C	25	Y			S20- 1-NC	25	Y	5	
AA 47	1	275	S20- 1-NC	25	Y			S21- 1-NC	25	Y	4	
AA 48	1	500	S9- 1-NO	25	Y			S9- 5-NO	25	Y	5	
AA 49	1	1000	S9- 5-NO	25	Y			S20- 3-C	25	Y	5	
AA 50	1	300	S20- 3-C	25	Y			S21- 4-C	25	Y	4	
AA 51	1	300	S20- 4-C	25	Y			S21- 2-C	25	Y	4	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014624
SCALE - NONE	REV LTR A	SHEET 6 OF 6

MIL 2085 - 4-63 WIR

1014625

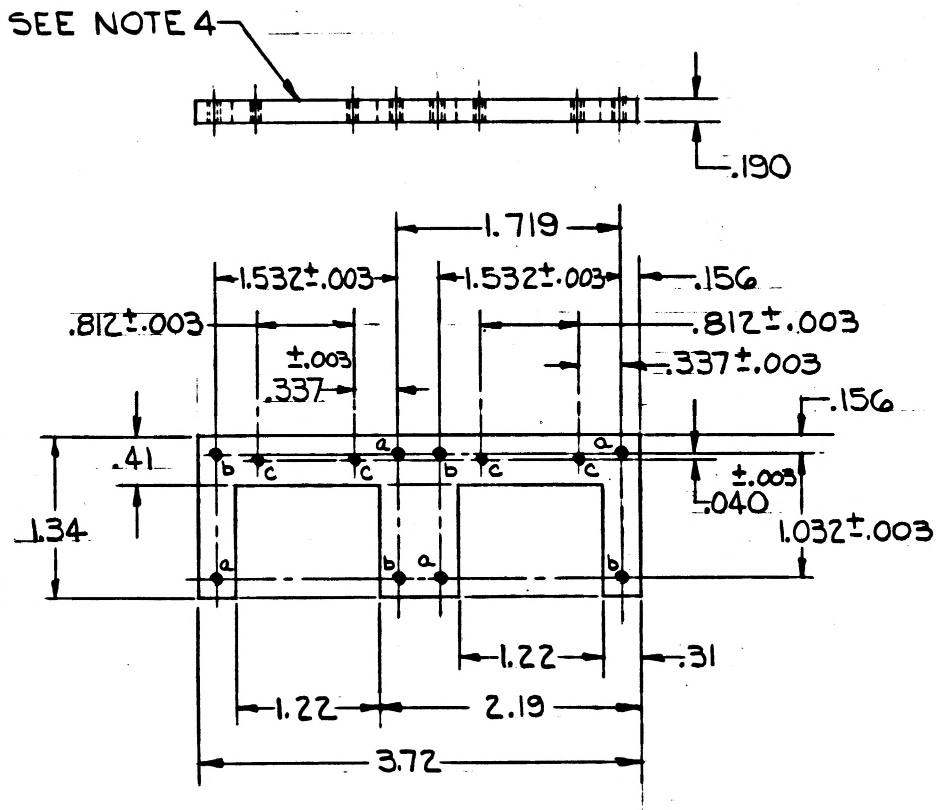
REVISIONS TDRR 05765			
SYM	DESCRIPTION	DATE	APPROVAL

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

NOTES:

1. INTERPERT DRAWING IN ACCORDANCE WITH MIL-D-70327.
2. MATL: AL ALY QQ-A-355 TEMPER T3.
3. FINISH: CHEMICAL FILM PER MIL-C-5514.
4. IDENTIFY USING PART NUMBER & REVISION LETTER PER ND 1002019.
5. MUST BE FREE FROM BURRS.

HOLE REF	QTY REQD	DESCRIPTION
a	4	.091$^{+.003}_{-.001}$ DIA, 4-40NC-2B THD 90° C'SK TO MAJOR DIA OF THD NEAR SIDE
b	4	.091$^{+.003}_{-.001}$ DIA, 4-40NC-2B THD 90° CSK TO MAJOR DIA OF THD FAR SIDE
c	4	.070$^{+.003}_{-.001}$ DIA, 2-56NC-2B THD 90° CSK TO MAJOR DIA OF THD NEAR SIDE



MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1015003	1014513
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2
HEAT TREATMENT —
FINAL FINISH SEE NOTE 3

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN J ALIMA DATE 7 JAN 64
CHECKED H Kuler 1-14-64
APPROVAL J J Nesi 1/14/64
APPROVAL 1/14/64
NASA APPROVAL W. J. R 1-15-64
MIT APPROVAL 15 Jan 64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ADAPTER PLATE-
RELAY & DIODE MODULE

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014625
SCALE 1:1
WT
SHEET 1 OF 1

1014626

REVISIONS TDRR 05765

SYM	DESCRIPTION	DATE	APPROVAL
A	REDRAWN AND REPLACED BY REV. B. TDRR 06982	3/17/64	WK.

PICTURE INCOMPLETE

QTY. REQD.	NOMENCLATURE OR DESCRIPTION	PART OR IDENTIFYING NO.	SPECIFICATION	MATERIAL OR NOTES	FIND NO.
16	CONTACT, ELEC-PIN	1010378-3			
13	CONTACT, ELEC - PIN	1010378-1			
1	CONNECTOR, PLUG ELEC	1010472-1			
1	CONNECTOR, PLUG ELEC	1010496-1			

LIST OF PARTS AND MATERIALS

MASTER

NEXT ASSY	USED ON
1015003	1014513

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL: —

MIT INSTRUMENTATION LAB
CONTRACT NAS 9-153

		DATE
APPROVED		1/13/64
CHECKED		9-14-64
DRAWN	JA LIMA	8 JAN 64

APPROVED FOR MSC
W.J. Rhine 1-15-64
BY DIRECTION MIT
15 Jan 64

WIRING HARNESS A

SCALE | UNIT WT. | CODE IDENT.

MIT
INSTRUMENTATION LABORATORY
CAMBRIDGE, MASS.
DWG. NO.
MANNED SPACECRAFT CENTER
HOUSTON TEXAS
NASA DRAWING NO.
1014626
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014626

REVISIONS TDRR05765

SYM	DESCRIPTION	DATE	APPROVAL

PICTURE INCOMPLETE

QTY. REQD.	NOMENCLATURE OR DESCRIPTION	PART OR IDENTIFYING NO.	SPECIFICATION	MATERIAL OR NOTES	FIND NO.
16	CONTACT, ELEC-PIN	1010378-3			
13	CONTACT, ELEC - PIN	1010378-1			
1	CONNECTOR, PLUG ELEC	1010472-1			
1	CONNECTOR, PLUG ELEC	1010496-1			

LIST OF PARTS AND MATERIALS

MASTER

NEXT ASSY	USED ON
1015003	1014513

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL: —

MIT
INSTRUMENTATION LAB
CONTRACT
NAS 9-153

		DATE
APPROVED		1/13/64
CHECKED		1-14-64
DRAWN	Ja Lima	8 Jan 64

APPROVED FOR MSC
1-15-64
BY DIRECTION MIT
15 Jan 64

WIRING HARNESS A

SCALE	UNIT WT.	CODE IDENT.

MIT
INSTRUMENTATION
LABORATORY
CAMBRIDGE, MASS.

DWG. NO.

MANNED
SPACECRAFT CENTER
HOUSTON · TEXAS

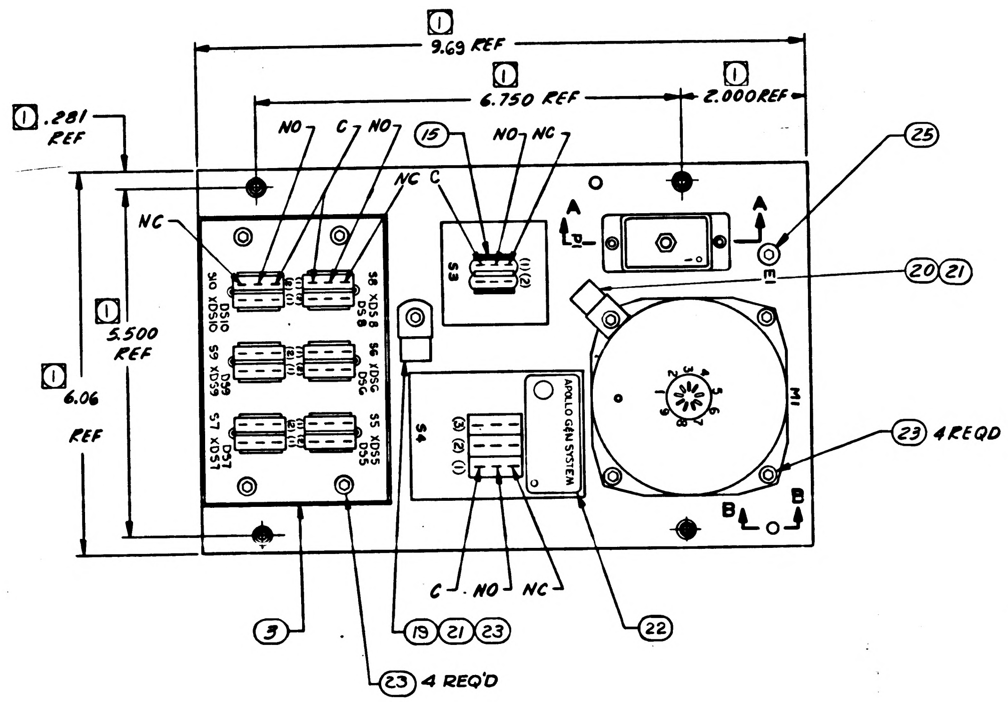
NASA DRAWING NO.
1014626

SHEET 1 OF 1

REVISIONS			13328		
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		INITIAL CLASS A RELEASE			
A		REVISED PER TDRR 15906		8FEB 65	JWP

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014526.
3. SERIALIZE PER ND1002023.
4. SOLDER PER ND1002071 USING ITEM 27 AND ITEM 28.
5. [1] DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
7. [2] DIMENSION CONTROLLED BY ICD MH01-01006-116.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NO
NC
NC
15
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C
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23 4 REQD
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S8 XDS8 DS8
S9 XDS9 DS9
S6 XDS6 DS6
S7 XDS7 DS7
S5 XDS5 DS5
S3
S4
M1
E1
A
A
B
B
APOLLO G&N SYSTEM
C - NO - NC
3
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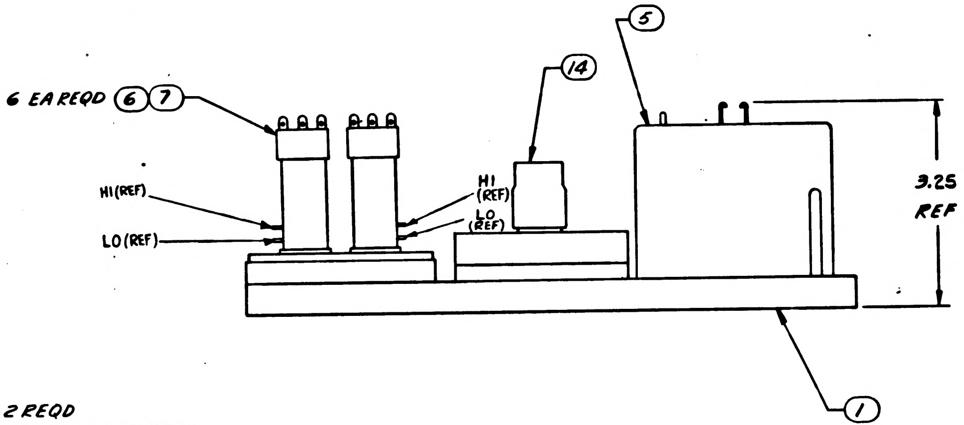
22
23 4 REQ'D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HI (REF)
LO (REF)
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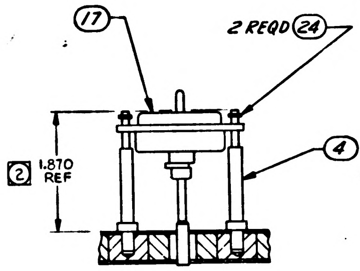
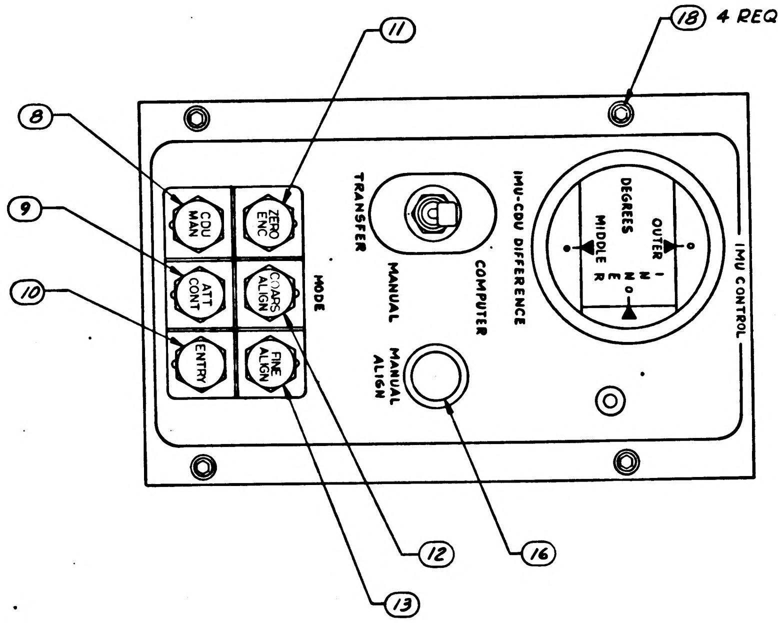

17
2 REQD 24
4 2 REQD PRESS IN SECURELY
[2] 1.870 REF

PARTIAL SECTION A-A


11
18 4 REQD
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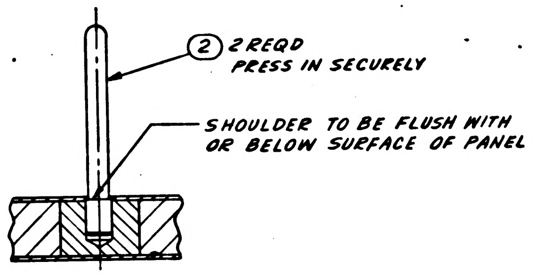
10
CDU MAN
ZERO ENC
ATT CONT
COARS ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
MANUAL ALIGN
IMU-CDU DIFFERENCE
DEGREES
OUTER
MIDDLE
INNER
IMU CONTROL
12
13
16


2 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1

SEE NOTE 6

SEE NOTE 6

SEE NOTE 6

SEE NOTE 6

			X			1021737	SCHEMATIC DIAGRAM
			AR		28	QQ-S-571 SN60 WRAP 2	SOLDER (ES-2175 ALLOY 1)
			AR		27	MIL-F-14256	FLUX (ES-2798)
					26		
			1		25	1006783-21	SCREW, BUTTON HD
			2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
			9		23	1006783-22	SCREW, BUTTON HD
			1		22	1014650-13	NAMEPLATE
			2		21	1011918-3	WASHER-CABLE CLAMP
			1		20	1000220-6	CLAMP-CABLE
			1		19	1000220-5	CLAMP-CABLE
			4		18	1014503	SCREW-CAPTIVE, CAP
			1		17	1015035	WIRE HARNESS
			1		16	1010475	CAP, PUSHBUTTON
			1		15	1010480-1	SWITCH, PUSH BUTTON
			1		14	1010484-1	SWITCH, TOGGLE
			1		13	1014651-6	
			1		12	-5	
			1		11	-4	
			1		10	-3	
			1		9	-2	
			1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
			6		7	1010624-2	LAMP, INCANDESCENT
			6		6	1010627-1	SWITCH, PUSH BUTTON
			1		5	1010804	METER, ELECTRICAL INDICATING
			2		4	1014530	PIN-CONNECTOR
			1		3	1014529	PLATE-SWITCH
			2		2	1014528	PIN-PANEL
			1		1	1014627	PANEL-IMU CONTROL (INSEP)
			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE
CHECKED F. J. Boehme 10-5-64
APPROVAL 10/5/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL
ASSEMBLY

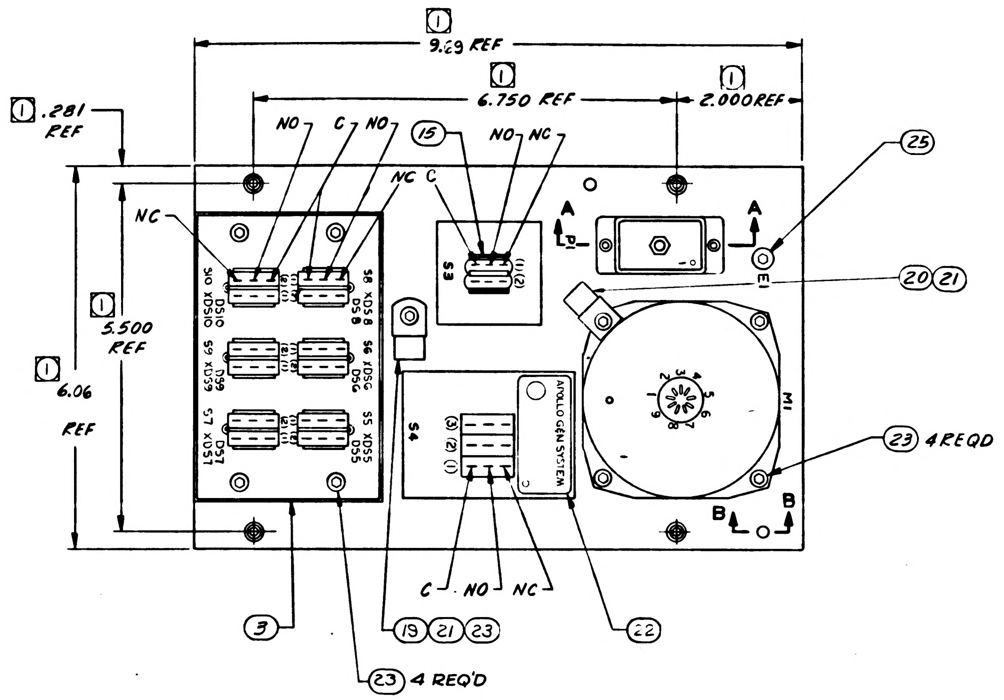
CODE IDENT NO.
SIZE E
1014628
SCALE FULL
WEIGHT
SHEET 1 OF 1

1014628

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		INITIAL CLASS A RELEASE			
A		REVISED PER TDRR 15906		5 FEB 65	
B	—	REVISED PER TDRR 16645	—	25 FEB 65	

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014526.
3. SERIALIZE PER ND1002023.
4. SOLDER PER ND1002071 USING ITEM 27 AND ITEM 28.
5. ① DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
7. ② DIMENSION CONTROLLED BY ICD MH01-01006-116.



① 9.29 REF
① 6.750 REF
① 2.000 REF
① .281 REF
① 5.500 REF
① 6.06 REF
NO
C
NO
NC
NC
C
NO
NC
15
25
20 21
23 4 REQD
A
A
B
B
S3
S4
E1
M1
DS10 XDS10 S10
DS8 XDS8 S8
DS9 XDS9 S9
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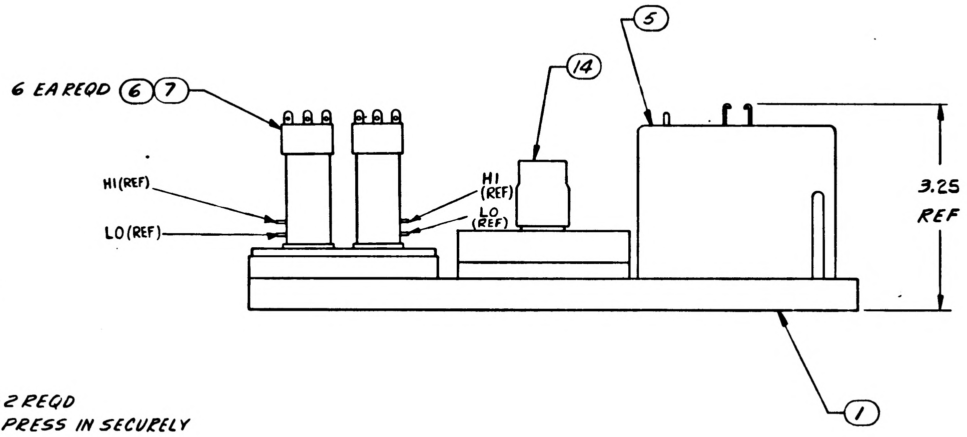

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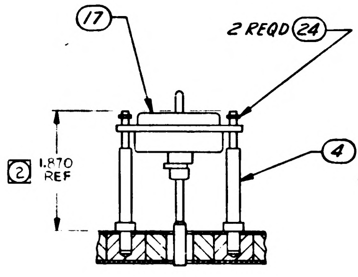
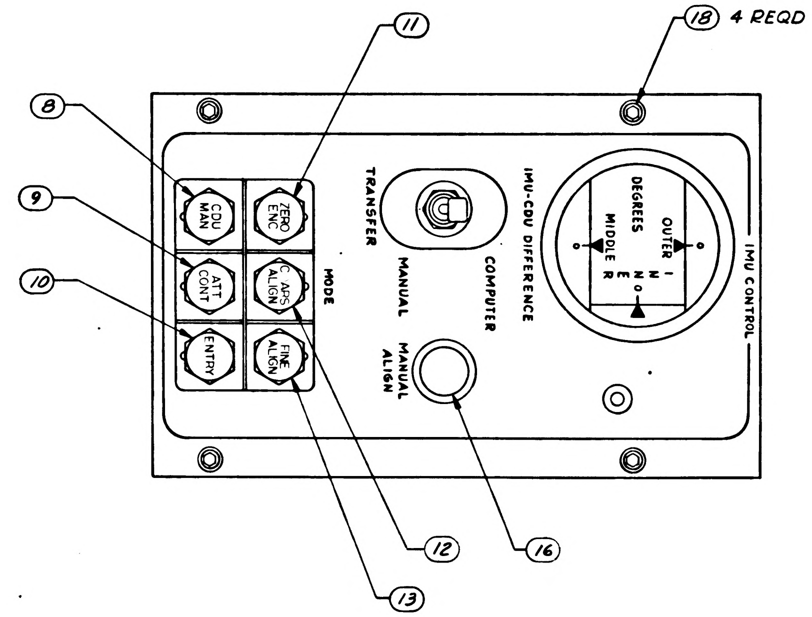


17
2 REQD 24
② 1.870 REF

④ 2 REQD PRESS IN SECURELY

PARTIAL SECTION A-A



11
18 4 REQD
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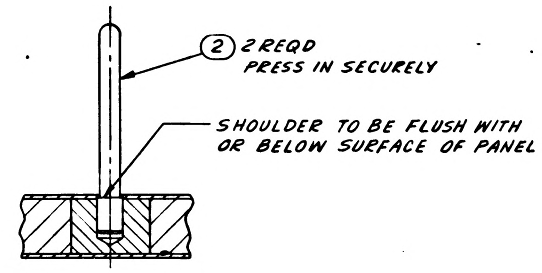
9
10
CDU MAN
ZERO ENC
ATT CONT
C. ALIGN ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
IMU-CDU DIFFERENCE
MANUAL ALIGN
IMU CONTROL
DEGREES
OUTER
INNER
MIDDLE
12
13
16



2 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1

SEE NOTE 6
SEE NOTE 6
SEE NOTE 6
SEE NOTE 6
SEE NOTE 6

			X			1021737	SCHEMATIC DIAGRAM
			AR		28	QQ-S-571 SN60 WRAP2	SOLDER (ES-2175 ALLOY 1)
			AR		27	MIL-F-14256	FLUX (ES-2748)
					26		
			1		25	1006783-21	SCREW, BUTTON HD
			2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
			9		23	1006783-22	SCREW, BUTTON HD
			1		22	1014650-13	NAMEPLATE
			2		21	1011918-3	WASHER-CABLE CLAMP
			1		20	1000220-6	CLAMP-CABLE
			1		19	1000220-5	CLAMP-CABLE
			4		18	1014503	SCREW-CAPTIVE, CAP
			1		17	1015035	WIRE HARNESS
			1		16	1010475	CAP, PUSHBUTTON
			1		15	1010904-1	SWITCH, PUSH BUTTON
			1		14	1010905-1	SWITCH, TOGGLE
			1		13	1014651-6	
			1		12	-5	
			1		11	-4	
			1		10	-3	
			1		9	-2	
			1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
			6		7	1010624-2	LAMP, INCANDESCENT
			6		6	1010907-1	SWITCH, PUSH BUTTON
			1		5	1010584	METER, ELECTRICAL INDICATING
			2		4	1014530	PIN-CONNECTOR
			1		3	1014529	PLATE-SWITCH
			2		2	1014528	PIN-PANEL
			1		1	1014627	PANEL-IMU CONTROL (INSEP)
			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + − DECIMALS + − ANGLES + −
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 10 Aug 64
CHECKED E J Cochran 10-5-64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL ASSEMBLY

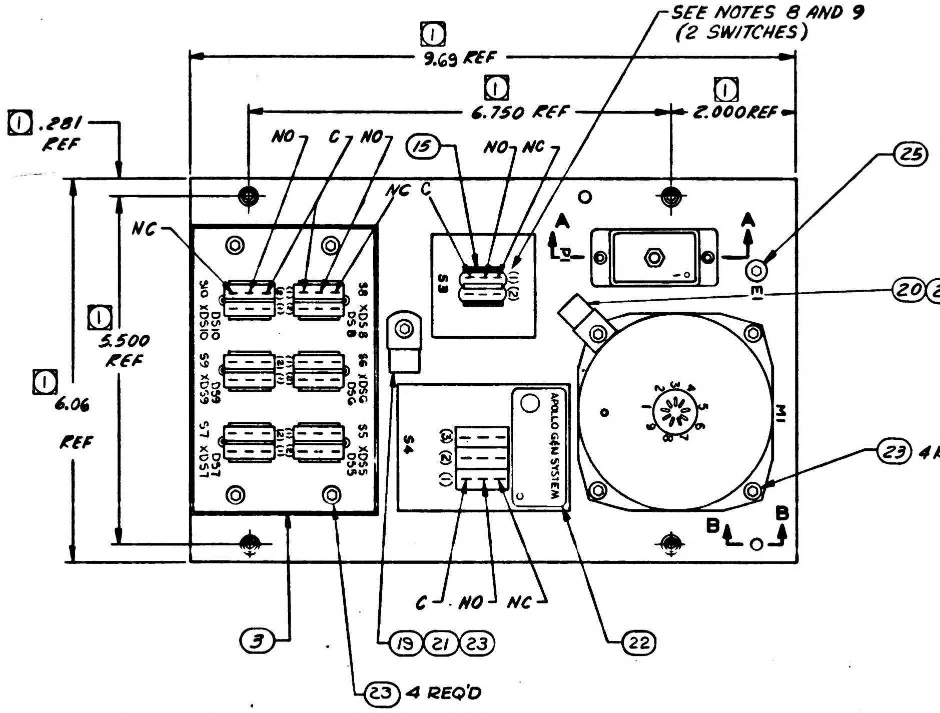
CODE IDENT NO.
SIZE E
1014628
SCALE FULL
WEIGHT
SHEET 1 OF 1

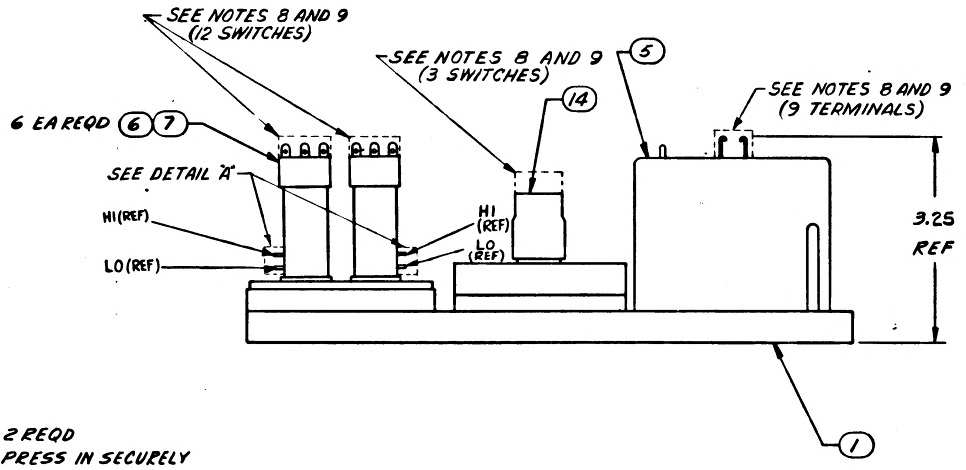
1014628

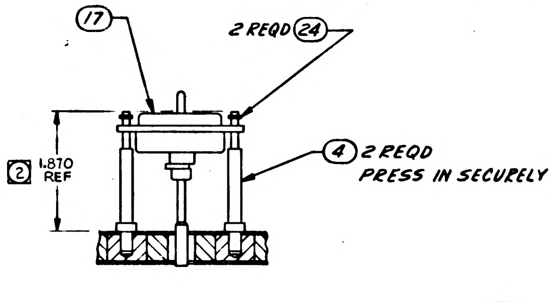
REVISIONS					13328
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		INITIAL CLASS A RELEASE			
A		REVISED PER TDRR 15906		8 FEB 65	JWP
B	—	REVISED PER TDRR 16645	—	25 FEB 65	
C		REVISED PER TDRR 17696		24 MAR 65	JWP

NOTES

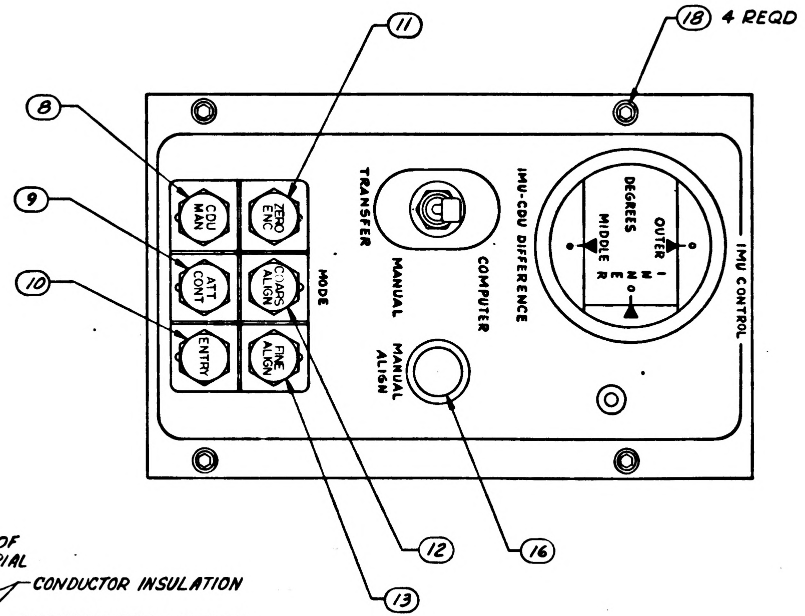
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014526.
3. SERIALIZE PER ND1002023.
4. SOLDER PER ND1002071 USING ITEM 27 AND ITEM 28.
5. [1] DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
7. [2] DIMENSION CONTROLLED BY ICD MH01-01006-116.
8. ENCAPSULATE ALL SOLDERED ELECTRICAL CONNECTIONS TO A .06 MINIMUM DEPTH PER ND1002236 USING ITEMS ㉚ THRU ㉝.
9. HEIGHT TO BE CONTROLLED BY REQUIREMENT THAT THE INSULATION ON THE WIRE MUST BE IMBEDDED INTO THE ENCAPSULATION MATERIAL BY .18 ± .06. WIRES MUST BE UNIFORMLY CENTERED IN ENCAPSULATING COMPOUND.

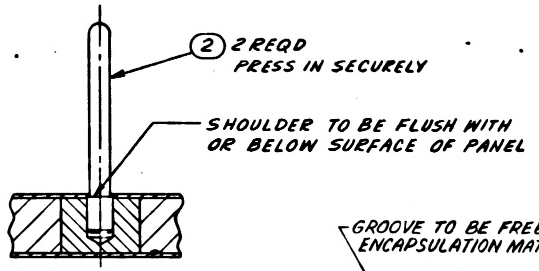

[1] 9.69 REF
[1] 6.750 REF
[1] 2.000 REF
[1] .281 REF
[1] 5.500 REF
[1] 6.06 REF
SEE NOTES 8 AND 9 (2 SWITCHES)
NO
C
NO
NC
NC
⑮
C
NO
NC
S3
A
A
E1
㉕
⑳㉑
M1
APOLLO G&N SYSTEM
S4
㉓ 4 REQD
B
B
C
NO
NC
③
⑲㉑㉓
㉒
㉓ 4 REQ'D


SEE NOTES 8 AND 9 (12 SWITCHES)
SEE NOTES 8 AND 9 (3 SWITCHES)
⑭
⑤
SEE NOTES 8 AND 9 (9 TERMINALS)
6 EA REQD ⑥⑦
SEE DETAIL "A"
HI (REF)
LO (REF)
HI (REF)
LO (REF)
3.25 REF
①

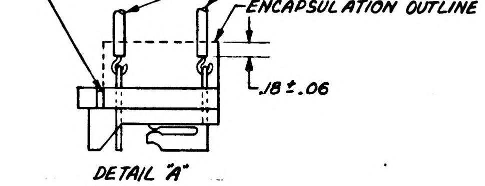

⑰
2 REQD ㉔
[2] 1.870 REF
④ 2 REQD PRESS IN SECURELY

PARTIAL SECTION A-A


⑪
⑱ 4 REQD
⑧
⑨
⑩
CDU MAN
ZERO ENC
ATT CONT
COARSE ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
IMU-CDU DIFFERENCE
DEGREES
OUTER
INNER
MIDDLE
MANUAL ALIGN
IMU CONTROL
⑫
⑯
⑬


② 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1


GROOVE TO BE FREE OF ENCAPSULATION MATERIAL
CONDUCTOR INSULATION
ENCAPSULATION OUTLINE
.18 ± .06

DETAIL "A"

				011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				AR		34	TT-M-261	METHYL-ETHYL KETONE
				AR		33	1012504-2	PRIMER-METAL
				AR		32	1012504-1	PRIMER-METAL
				AR		31	1012503-2	COMPOUND-POLYURETHANE
				AR		30	1012503-1	COMPOUND-POLYURETHANE
				X		29	1021737	SCHEMATIC DIAGRAM
				AR		28	QQ-S-571 SN60 WRAP 2	SOLDER (ES-2175 ALLOY 1)
				AR		27	MIL-F-14256	FLUX (ES-2798)
						26		
SEE NOTE 6				1		25	1006783-21	SCREW, BUTTON HD
				2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
SEE NOTE 6				9		23	1006783-22	SCREW, BUTTON HD
				1		22	1014650-13	NAMEPLATE
				2		21	1011918-3	WASHER-CABLE CLAMP
				1		20	1000220-6	CLAMP-CABLE
SEE NOTE 6				1		19	1000220-5	CLAMP-CABLE
				4		18	1014503	SCREW-CAPTIVE, CAP
				1		17	1015035	WIRE HARNESS
				1		16	1010475-1	CAP, PUSHBUTTON
				1		15	1010904-1	SWITCH, PUSH BUTTON
SEE NOTE 6				1		14	1010905-1	SWITCH, TOGGLE
				1		13	1014651-6	
				1		12	-5	
				1		11	-4	
				1		10	-3	
				1		9	-2	
				1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
				6		7	1010624-2	LAMP, INCANDESCENT
				6		6	1010907-1	SWITCH, PUSH BUTTON
SEE NOTE 6				1		5	1010804	METER, ELECTRICAL INDICATING
				2		4	1014530	PIN-CONNECTOR
				1		3	1014529	PLATE-SWITCH
				2		2	1014528	PIN-PANEL
				1		1	1014627	PANEL-IMU CONTROL (INSEP)
	QUANTITY REQUIRED						LIST OF PARTS AND MATERIALS	

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE
CHECKED 10-5-64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL
ASSEMBLY

CODE IDENT NO. SIZE E 1014628
SCALE FULL WEIGHT SHEET 1 OF 1

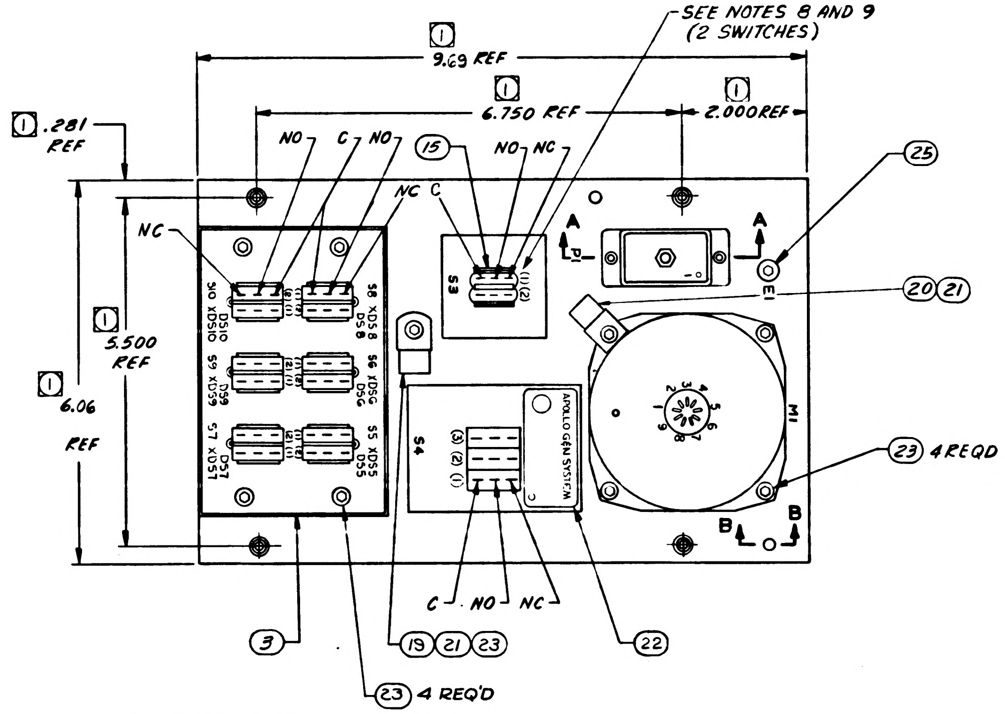
1014628

NOTES

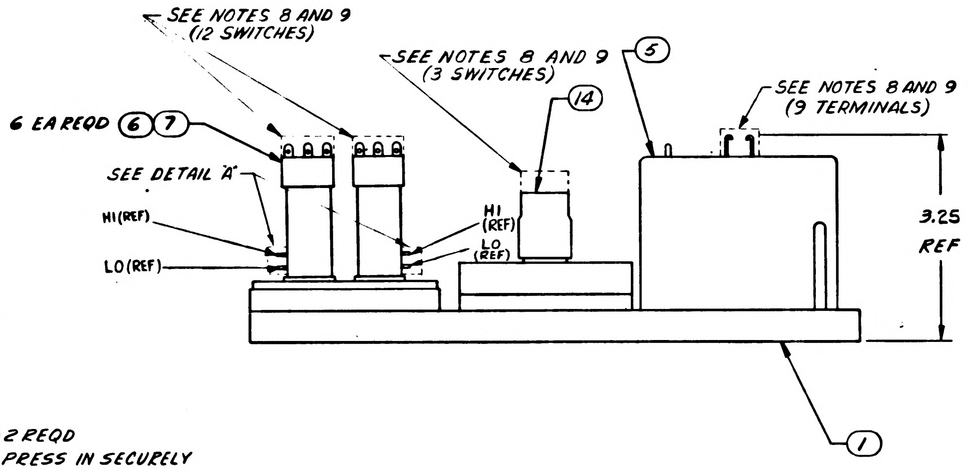
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014526.
3. SERIALIZE PER ND1002023.
4. SOLDER PER ND1002071 USING ITEM 27 AND ITEM 28.
5. ① DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
7. ② DIMENSION CONTROLLED BY ICD MH01-01006-116.
8. ENCAPSULATE ALL SOLDERED ELECTRICAL CONNECTIONS TO A .06 MINIMUM DEPTH PER ND1002236 USING ITEMS (30) THRU (33).
9. HEIGHT TO BE CONTROLLED BY REQUIREMENT THAT THE INSULATION ON THE WIRE MUST BE IMBEDDED INTO THE ENCAPSULATION MATERIAL BY .18 ± .06. WIRES MUST BE UNIFORMLY CENTERED IN ENCAPSULATING COMPOUND.

REVISIONS

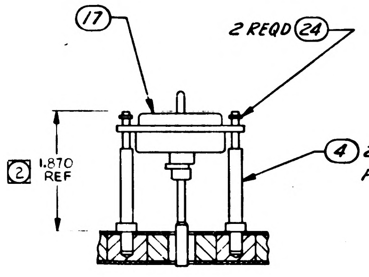
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		INITIAL CLASS A RELEASE			
A		REVISED PER TDRR 15906		5 FEB 65	
B	—	REVISED PER TDRR 16645	—	25 FEB 65	
C		REVISED PER TDRR 17696		30 MAR 65	
D		REVISED PER TDRR 22048		8 SEP 65	



① 9.69 REF
① 6.750 REF
① 2.000 REF
① .281 REF
① 5.500 REF
① 6.06 REF
SEE NOTES 8 AND 9 (2 SWITCHES)
NO
C
NO
NC
NC
C
NO
NC
(15)
(25)
(20)(21)
(23) 4 REQD
(3)
(19)(21)(23)
(23) 4 REQ'D
(22)
C
NO
NC
A
A
B
B
S3
S4
M1
DS10 XDS10 S10
DS8 XDS8 S8
DS9 XDS9 S9
DS6 XDS6 S6
DS7 XDS7 S7
DS5 XDS5 S5
APOLLO G&N SYSTEM

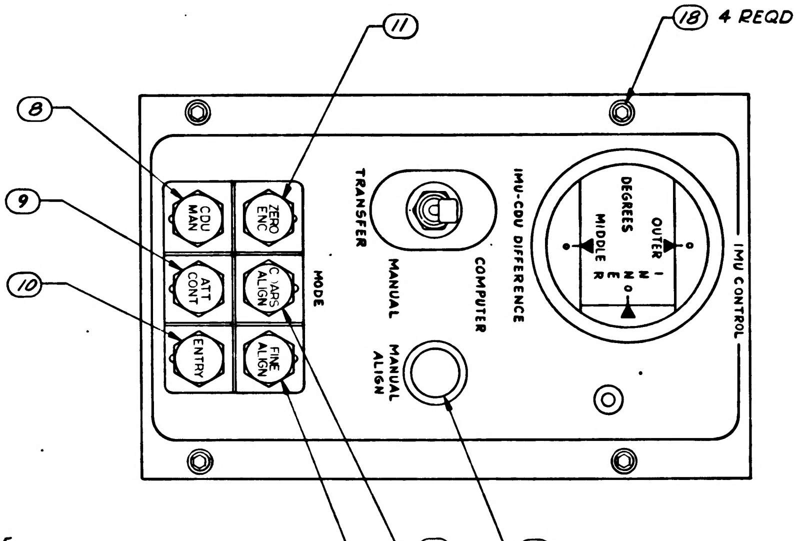


SEE NOTES 8 AND 9 (12 SWITCHES)
SEE NOTES 8 AND 9 (3 SWITCHES)
SEE NOTES 8 AND 9 (9 TERMINALS)
6 EA REQD (6)(7)
SEE DETAIL "A"
HI (REF)
LO (REF)
HI (REF)
LO (REF)
(14)
(5)
(1)
3.25 REF

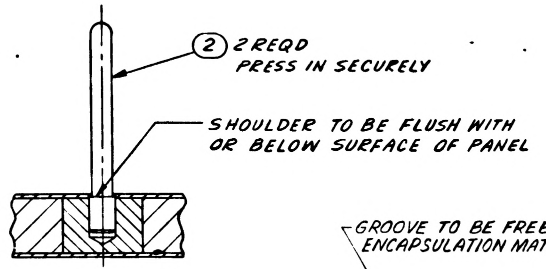


(17)
2 REQD (24)
(4) 2 REQD PRESS IN SECURELY
② 1.870 REF

PARTIAL SECTION A-A

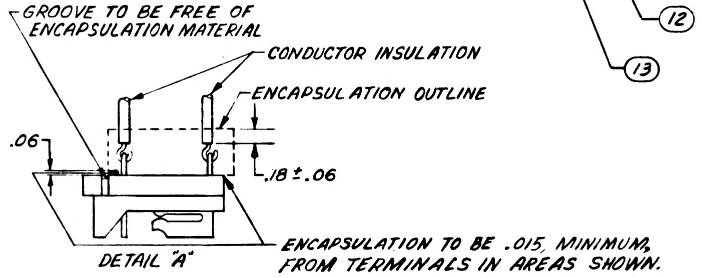


(8)
(9)
(10)
(11)
(18) 4 REQD
(12)
(13)
(16)
CDU MAN
ATT CONT
ENTRY
ZERO ENC
GYRO ALIGN
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
IMU-CDU DIFFERENCE
DEGREES
OUTER
INNER
MIDDLE
IMU CONTROL
MANUAL ALIGN



(2) 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1



GROOVE TO BE FREE OF ENCAPSULATION MATERIAL
CONDUCTOR INSULATION
ENCAPSULATION OUTLINE
.06
.18 ± .06
ENCAPSULATION TO BE .015, MINIMUM, FROM TERMINALS IN AREAS SHOWN.

DETAIL "A"

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	AR		34	TT-M-261	METHYL-ETHYL KETONE
	AR		33	1012504-2	PRIMER-METAL
	AR		32	1012504-1	PRIMER-METAL
	AR		31	1012503-2	COMPOUND-POLYURETHANE
	AR		30	1012503-1	COMPOUND-POLYURETHANE
	X		29	1021737	SCHEMATIC DIAGRAM
	AR		28	QQ-S-571 SN60 WRAP2	SOLDER (ES-2175 ALLOY I)
	AR		27	MIL-F-14256	FLUX (ES-2798)
			26		
SEE NOTE 6	1		25	1006783-21	SCREW, BUTTON HD
	2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
SEE NOTE 6	9		23	1006783-22	SCREW, BUTTON HD
	1		22	1014650-13	NAMEPLATE
	2		21	1011918-3	WASHER-CABLE CLAMP
	1		20	1000220-6	CLAMP-CABLE
SEE NOTE 6	1		19	1000220-5	CLAMP-CABLE
	4		18	1014503	SCREW-CAPTIVE, CAP
	1		17	1015035	WIRE HARNESS
	1		16	1010475-1	CAP, PUSHBUTTON
	1		15	1010904-1	SWITCH, PUSH BUTTON
SEE NOTE 6	1		14	1010905-1	SWITCH, TOGGLE
	1		13	1014651-6	
	1		12	-5	
	1		11	-4	
	1		10	-3	
	1		9	-2	
	1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
	6		7	1010624-2	LAMP, INCANDESCENT
	6		6	1010907-1	SWITCH, PUSH BUTTON
SEE NOTE 6	1		5	1010504	METER, ELECTRICAL INDICATING
	2		4	1014530	PIN-CONNECTOR
	1		3	1014529	PLATE-SWITCH
	2		2	1014528	PIN-PANEL
	1		1	1014627	PANEL-IMU CONTROL (INSEP)

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 10 Aug 64
CHECKED F. J. Backus 10-5-64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

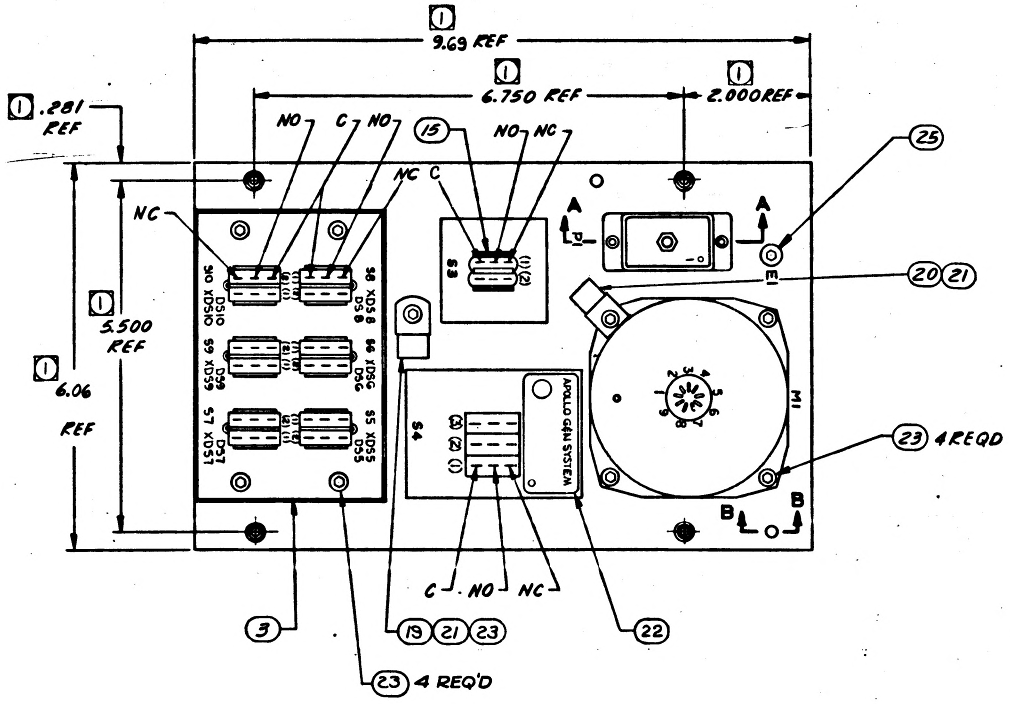
IMU CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014628
SCALE FULL
WEIGHT
SHEET 1 OF 1

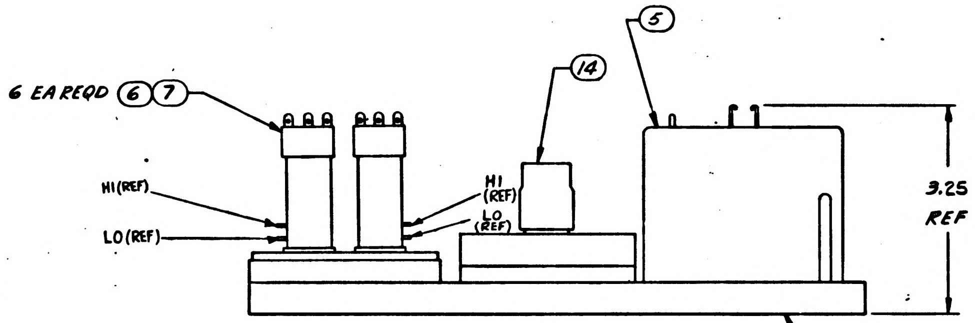
REVISIONS		13328		
SYM	ZONE	DESCRIPTION	DATE	APPD.
		INITIAL CLASS A RELEASE / CHG NO.		

NOTES

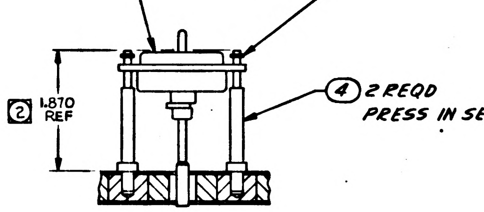
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014628.
3. SERIALIZE PER ND1002023.
4. SOLDER PER ND1002071 USING ITEM 27 AND ITEM 28.
5. [1] DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
7. [2] DIMENSION CONTROLLED BY ICD MH01-01006-116.



[1] 9.69 REF
[1] 6.750 REF
[1] 2.000 REF
[1] .281 REF
[1] 5.500 REF
[1] 6.06 REF
NO
C
NC
15
25
20 21
23 4 REQD
23 4 REQ'D
19 21 23
22
3
A
B
S8
S4
M1
E1
APOLLO G&N SYSTEM
XDS10 DS10
XDS8 DS8
XDS9 DS9
XDS6 DS6
XDS7 DS7
XDS5 DS5

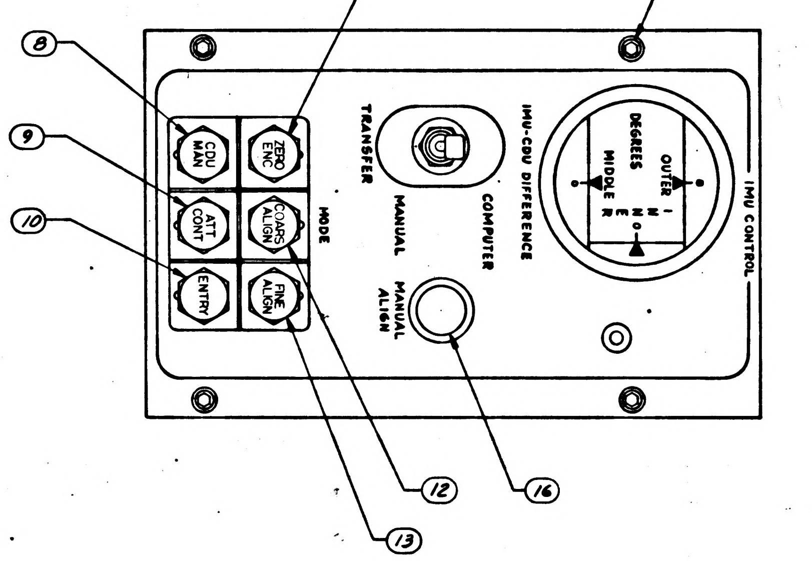


6 EA REQD 6 7
14
5
HI (REF)
LO (REF)
3.25 REF
1

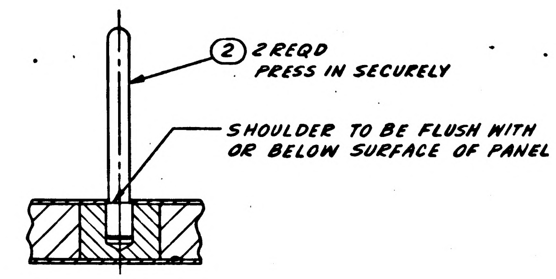


17
2 REQD 24
4 2 REQD PRESS IN SECURELY
[2] 1.870 REF

PARTIAL SECTION A-A



11
18 4 REQD
8
9
10
12
13
16
CDU MAN
ZERO ENC
ATT CONT
COARS ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
MANUAL ALIGN
IMU-CDU DIFFERENCE
DEGREES
OUTER
INNER
MIDDLE
IMU CONTROL



2 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1

SEE NOTE 6

SEE NOTE 6

SEE NOTE 6

SEE NOTE 6

			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			X			1021737	SCHEMATIC DIAGRAM
			AR		28	QQ-S-571 SN60 WRAP 2	SOLDER (ES-2175 ALLOY 1)
			AR		27	MIL-F-14256	FLUX (ES-2798)
					26		
			1		25	1006783-21	SCREW, BUTTON HD
			2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
			9		23	1006783-22	SCREW, BUTTON HD
			1		22	1014650-13	NAMEPLATE
			2		21	1011918-3	WASHER-CABLE CLAMP
			1		20	1000220-6	CLAMP-CABLE
			1		19	1000220-5	CLAMP-CABLE
			4		18	1014503	SCREW-CAPTIVE, CAP
			1		17	1015035	WIRE HARNESS
			1		16	1010475	CAP, PUSHBUTTON
			1		15	1010480-1	SWITCH, PUSH BUTTON
			1		14	1010484-1	SWITCH, TOGGLE
			1		13	1014651-6	
			1		12	-5	
			1		11	-4	
			1		10	-3	
			1		9	-2	
			1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
			6		7	1010624-2	LAMP, INCANDESCENT
			6		6	1010627-1	SWITCH, PUSH BUTTON
			1		5	1010804	METER, ELECTRICAL INDICATING
			2		4	1014530	PIN-CONNECTOR
			1		3	1014529	PLATE-SWITCH
			2		2	1014528	PIN-PANEL
			1		1	1014627	PANEL-IMU CONTROL (INSEP)
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

1014628

1015023-021	1015023-021	-011
NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

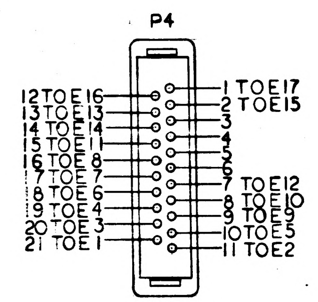
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE [illegible]
CHECKED F J Backus 10-5-64
APPROVAL [illegible] 10/5/64
APPROVAL
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL ASSEMBLY

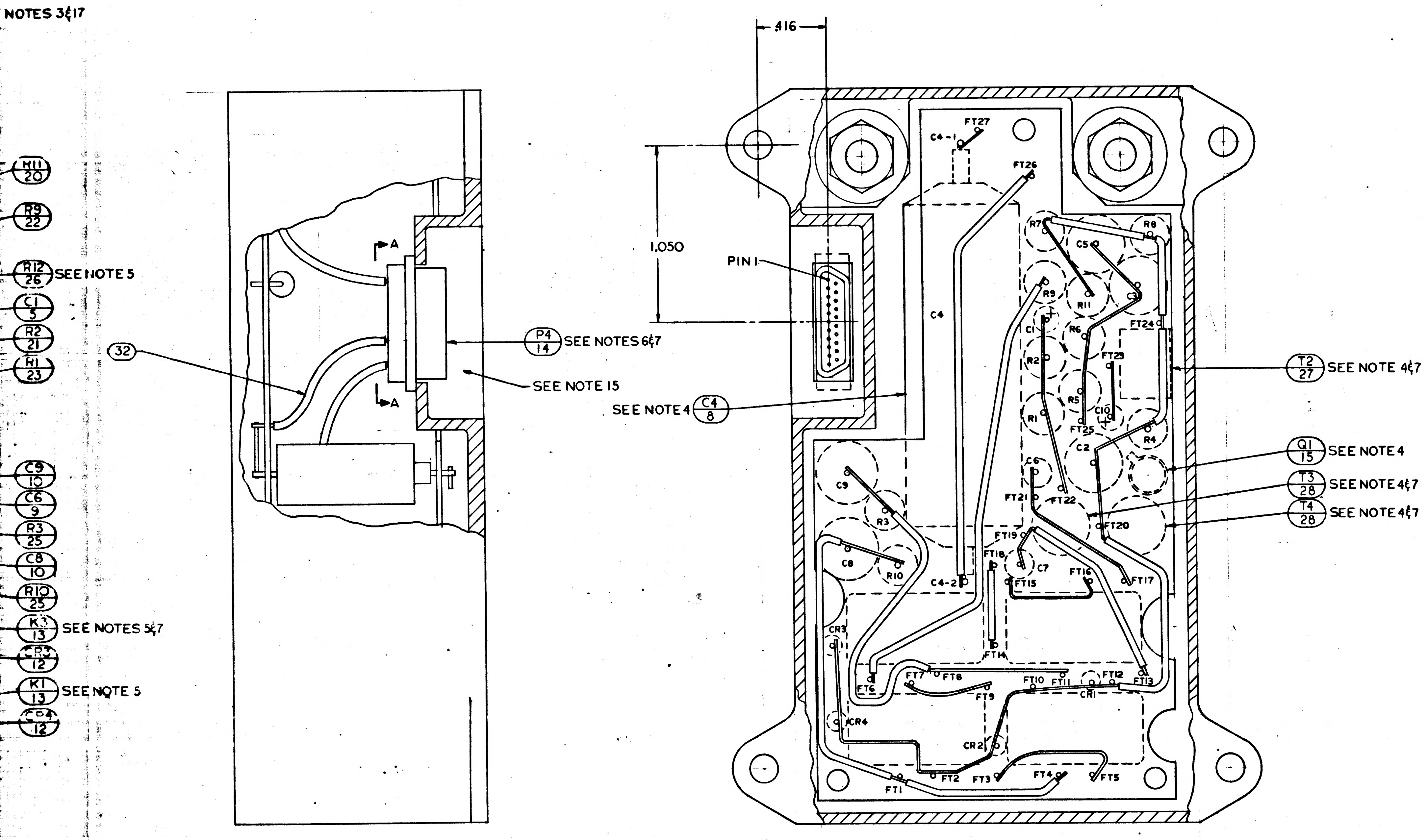
CODE IDENT NO. | SIZE E | 1014628
SCALE FULL | WEIGHT | SHEET 1 OF 1

MASTER


P4
12 TO E16
13 TO E13
14 TO E14
15 TO E1
16 TO E8
17 TO E7
18 TO E6
19 TO E4
20 TO E3
21 TO E1
1 TO E17
2 TO E15
3
4
5
6
7 TO E12
8 TO E10
9 TO E9
10 TO E5
11 TO E2

VIEW A-A
TERMINAL IDENTIFICATION
AND WIRING DATA

ENDS


NOTES 3&17
R11 20
R9 22
R12 26 SEE NOTE 5
C1 5
R2 21
R1 23
C9 10
C6 9
R3 25
C8 10
R10 25
K3 13 SEE NOTES 5&7
CR3 12
K1 13 SEE NOTE 5
CR4 12
32
A
A
P4 14 SEE NOTES 6&7
SEE NOTE 15
.416
1.050
PIN 1
SEE NOTE 4 C4 8
C4-1
FT27
FT26
C4
R7
R8
C5
C3
R9
R11
C1
R6
R2
FT24
FT23
R5
C10
R1
FT25
C2
R4
C6
FT21
FT22
C9
R3
FT20
FT19
C7
FT18
FT16
FT17
C8
R10
C4-2
FT15
CR3
FT14
FT6
FT7
FT8
FT9
FT10
FT11
FT12
FT13
CR1
CR4
CR2
FT1
FT2
FT3
FT4
FT5
T2 27 SEE NOTE 4&7
Q1 15 SEE NOTE 4
T3 28 SEE NOTE 4&7
T4 28 SEE NOTE 4&7

SEE NOTE 16 ↕ SEE NOTE 16 (finds 6 through 33)

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
X	1014635	SCHEMATIC, ELEC	REF
AR	MIL-14256	FLUX	35
	TYPE AR	FLUX	
AR	SN60	SOLDER	34
4	1011495-1	WASHER INSULATION	33
AR	1006776-22	INSULATION SLEEVING	32
AR	1006776-20	INSULATION SLEEVING	31
AR	1006787-2	WIRE, ELECTRICAL	30
AR	1006757-1	WIRE, ELECTRICAL	29
2	1010324	TRANSFORMER	28
1	1010291-4	TRANSFORMER	27
1	1010364-251	RESISTOR	26
2	1010389-49	↑	25
2	1010389-1		24
1	1010363-827		23
1	↑ -635		22
1	-603		21
1	-501		20
1	-381		19
1	↓ -251	↓	18
1	1010363 -75	RESISTOR	17
1	1010269-2	TRANSISTOR(MATCHED PR)	16
1	1010397-1	TRANSISTOR	15
1	1010472-2	CONNECTOR, ELEC RECEP	14
4	1010436-2	RELAY	13
4	1010384	DIODE	12
1	1010393-017	CAPACITOR	11
2	1006755-134	↑	10
2	1010279-216		9
1	1010264-40		8
2	1010375-25		7
1	1006755-89	↓	6
1	1010393-029	CAPACITOR	5
3	1014632	SPACER	4
1	1014634	WIRING BOARD, BOTTOM	3
1	1014633	WIRING BOARD, TOP	2
1	1014631	HOUSING	

LIST OF MATERIALS

NEXT ASSY	USED ON
1011559	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN J.G. Laine DATE 2 FEB 64
CHECKED
APPROVAL 2/4/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AMPLIFIER AND SWITCH MODULE
(INSEPERABLE ASSEMBLY)

CODE IDENT NO. | SIZE J | NASA DRAWING NO. 1014630
SCALE 4:1 | WT | SHEET 1 OF 1

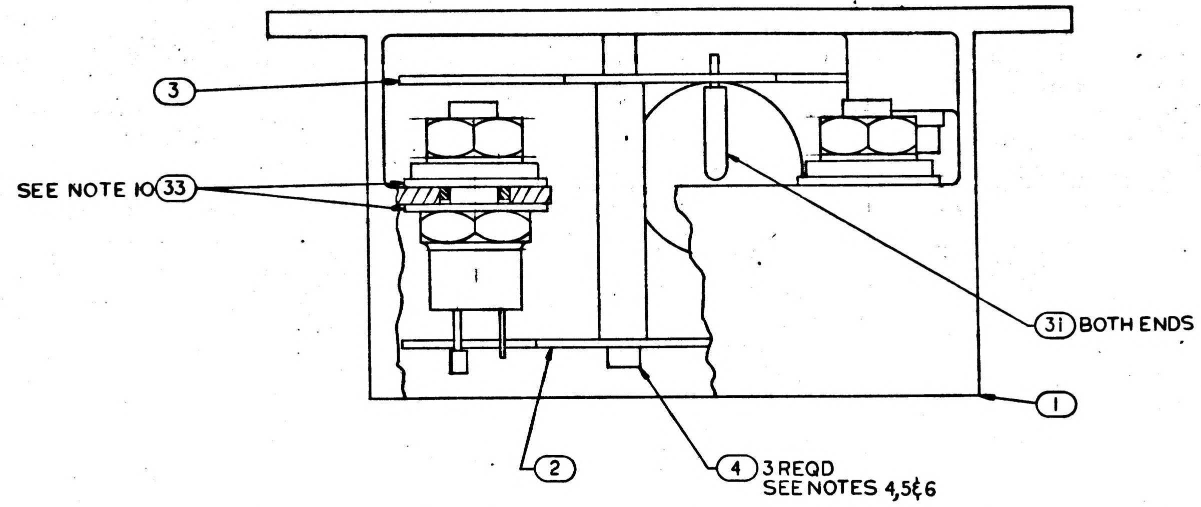
MASTER

INCHES
PHOTOGRAPHIC SCALE ONLY

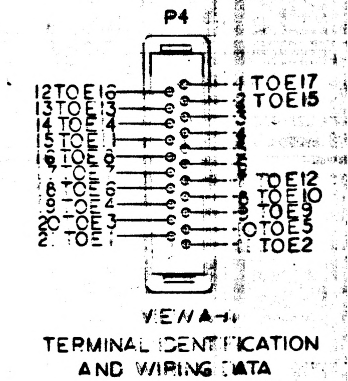
[illegible]

NOTES:

1. INTERPERT DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL WELD CONNECTIONS TO BE MADE PER ND1002005.
3. ALL SOLDER CONNECTIONS TO BE MADE PER MSFC-PROC-158 USING FIND NO.'S 34 & 35 PER QQ-S-571.
4. BOND FIND NO.'S 4, 8, 15, 27 & 28 TO FIND NO. 3 PER ND1002004.
5. BOND FIND NO.'S 4, 13 & 26 TO FIND NO. 2 PER ND 1002004.
6. BOND FIND NO.'S 4 & 14 TO FIND NO. 1 PER ND 1002004.
7. ALL UNUSED LEADS ON FIND NO.'S 13, 14, 27 & 28 TO BE CUT .030 TO .090 ABOVE CASES.
8. SERIALIZE AND MARK .10 TO .14 HIGH WHITE PER ND1002023. CENTRALIZE AS SHOWN.
9. ENCAPSULATE MODULE PER ND 1002002 (BLACK POLYURETHANE FOAM). ENCAPSULANT DIMENSIONS MAY EXCEED HOUSING DIMENSIONS BY .005 MAX.
10. REMOVE (4) MICA WASHERS SUPPLIED WITH FIND NO. 16 AND REPLACE WITH FIND NO. 33.
11. AFTER WELDING ALL LEADS MUST EXTEND BEYOND RIBBON .010 MIN.
12. INSPECT PER PS1014630.
13. TEST PER FTM 1014630.
14. SYMBOL DEFINITIONS
    AR = AS REQUIRED
    FT = FEED THRU
    K = CATHODE END OF DIODE
15. CLEARANCE CAVITY FOR CONNECTOR ENGAGEMENT MUST BE FREE OF ENCAPSULATION MATERIAL.
16. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.
17. MOUNTING TORQUE 12-14 INCH POUNDS.



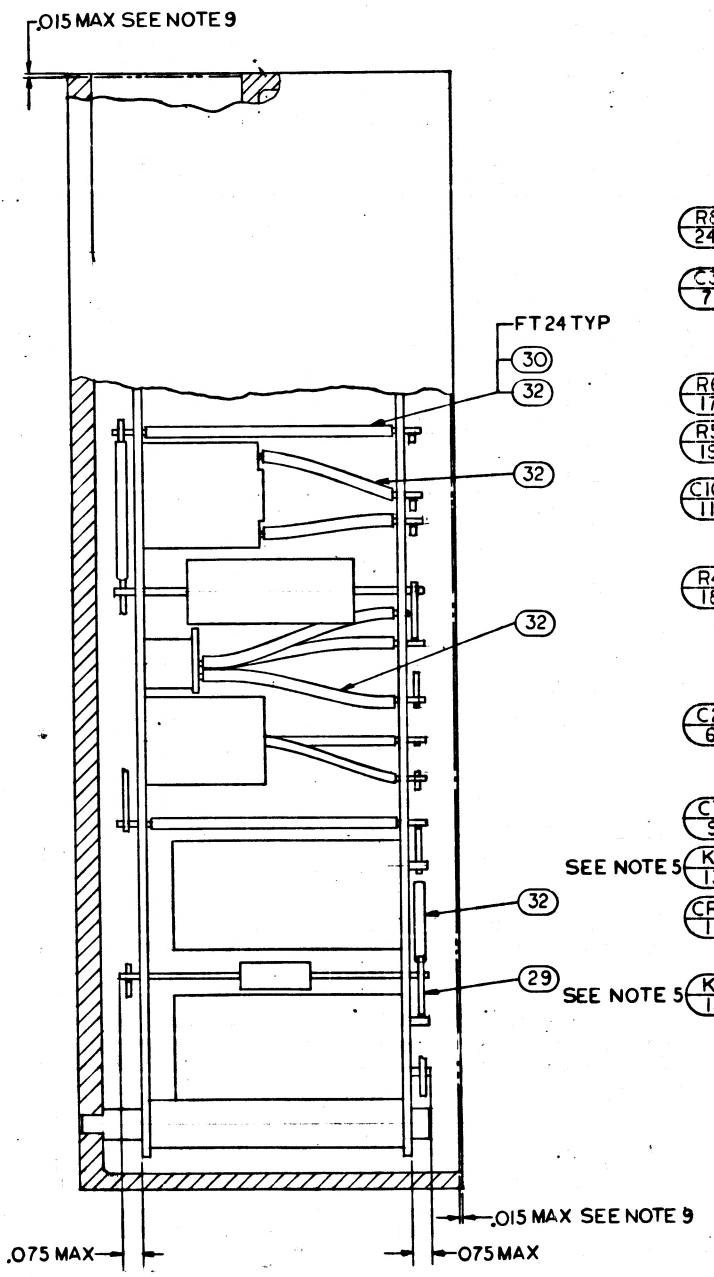
3
SEE NOTE 10 33
31 BOTH ENDS
1
2
4 3 REQD SEE NOTES 4,5 & 6



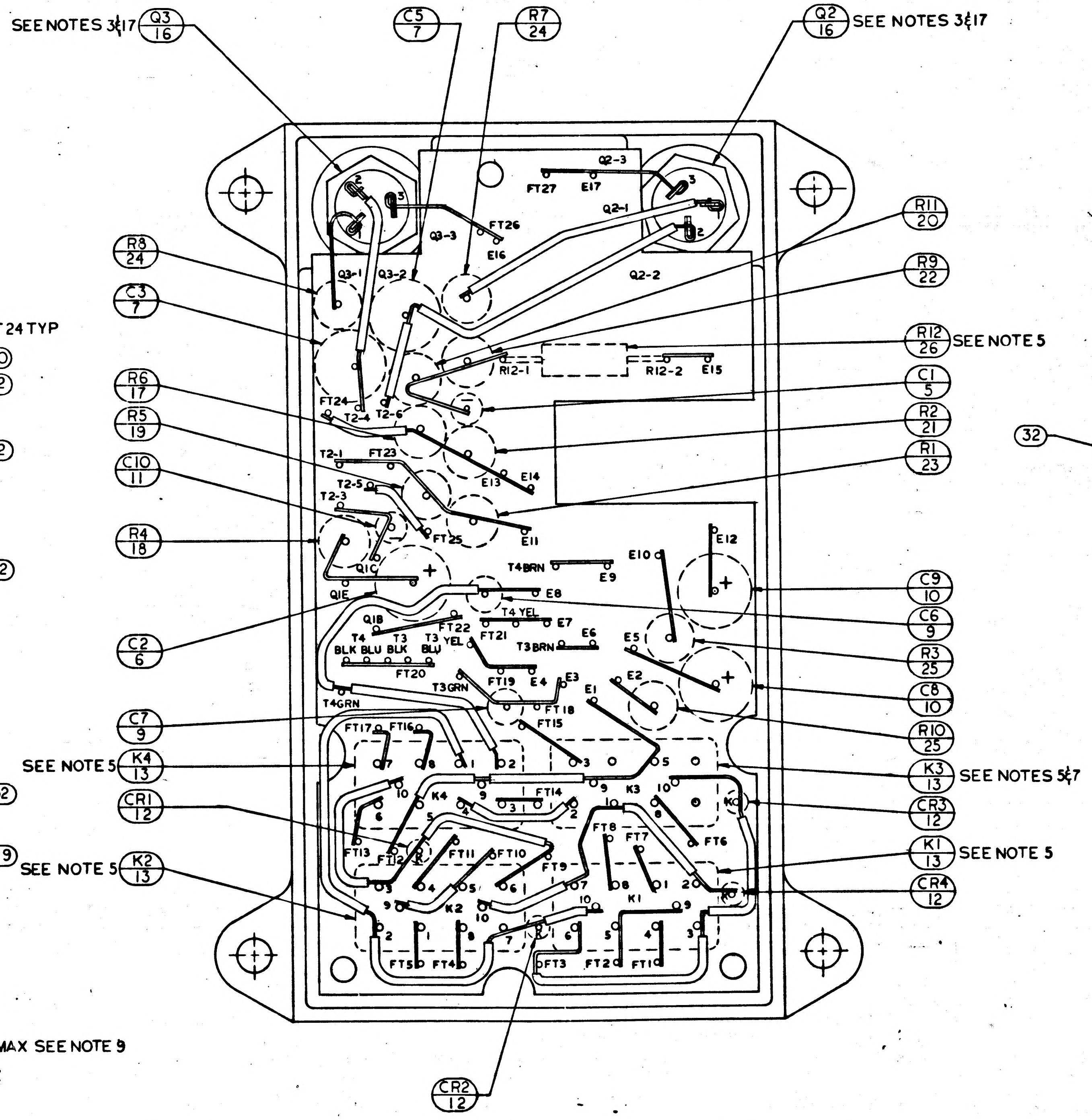
P4
12 TO E16
13 TO E13
14 TO E4
15 TO E1
16 TO E9
7 TO E7
8 TO E6
9 TO E4
20 TO E3
2 TO E1
TO E17
TO E15
TO E12
TO E10
TO E9
TO E5
TO E2

VIEW A-A

TERMINAL IDENTIFICATION AND WIRING DATA



.015 MAX SEE NOTE 9
FT24 TYP
30
32
32
32
32
29
.015 MAX SEE NOTE 9
.075 MAX
.075 MAX



SEE NOTES 3&17 Q3 16
C5 7
R7 24
Q2 16 SEE NOTES 3&17
R8 24
C3 7
R6 17
R5 19
C10 11
R4 18
C2 6
C7 9
SEE NOTE 5 K4 13
CR1 12
SEE NOTE 5 K2 13
R11 20
R9 22
R12 26 SEE NOTE 5
C1 5
R2 21
R1 23
C9 10
C6 9
R3 25
C8 10
R10 25
K3 13 SEE NOTES 5&7
CR3 12
K1 13 SEE NOTE 5
CR4 12
CR2 12
32
Q3-1
Q3-2
Q3-3
Q2-1
Q2-2
Q2-3
FT27
E17
FT26
E16
R12-1
R12-2
E15
FT24
T2-4
T2-6
T2-1
FT23
T2-5
T2-3
E13
E14
FT25
E11
Q1C
Q1E
Q1B
T4 BRN
E9
E10
E12
E8
T4 YEL
E7
E6
E5
T4 BLK
T3 BLU
T3 BLK
T3 BLU
T3 YEL
FT22
FT21
T3 BRN
FT20
T3 GRN
FT19
E4
E3
E1
E2
T4 GRN
FT18
FT15
FT17
FT16
FT14
K4
K3
FT13
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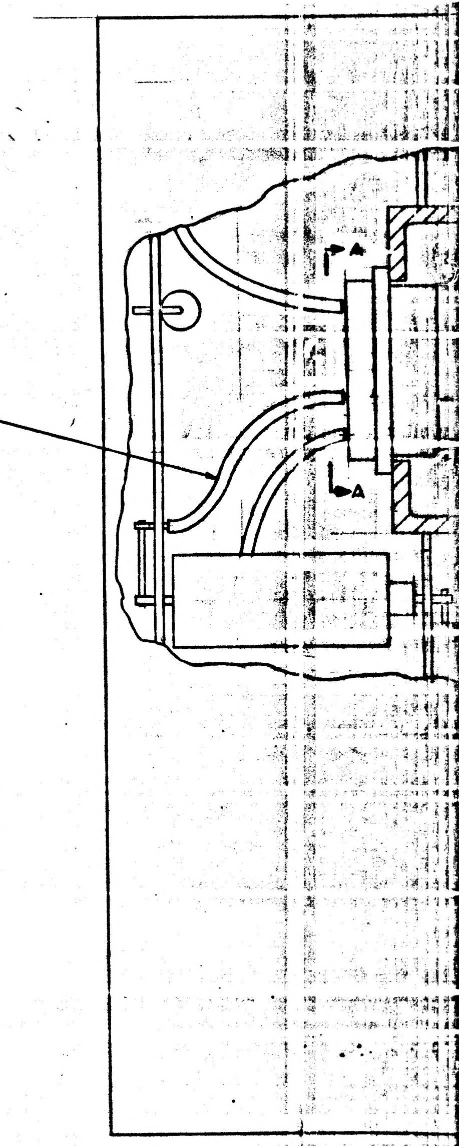
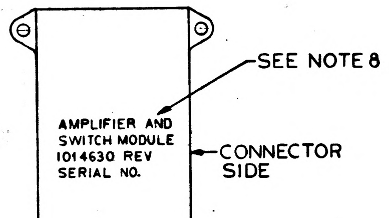
K2
K1
FT5
FT4
FT3
FT2
FT1





SEE NOTE 8
AMPLIFIER AND SWITCH MODULE 1014630 REV SERIAL NO.
CONNECTOR SIDE

MARKING VIEW
SCALE 1:1

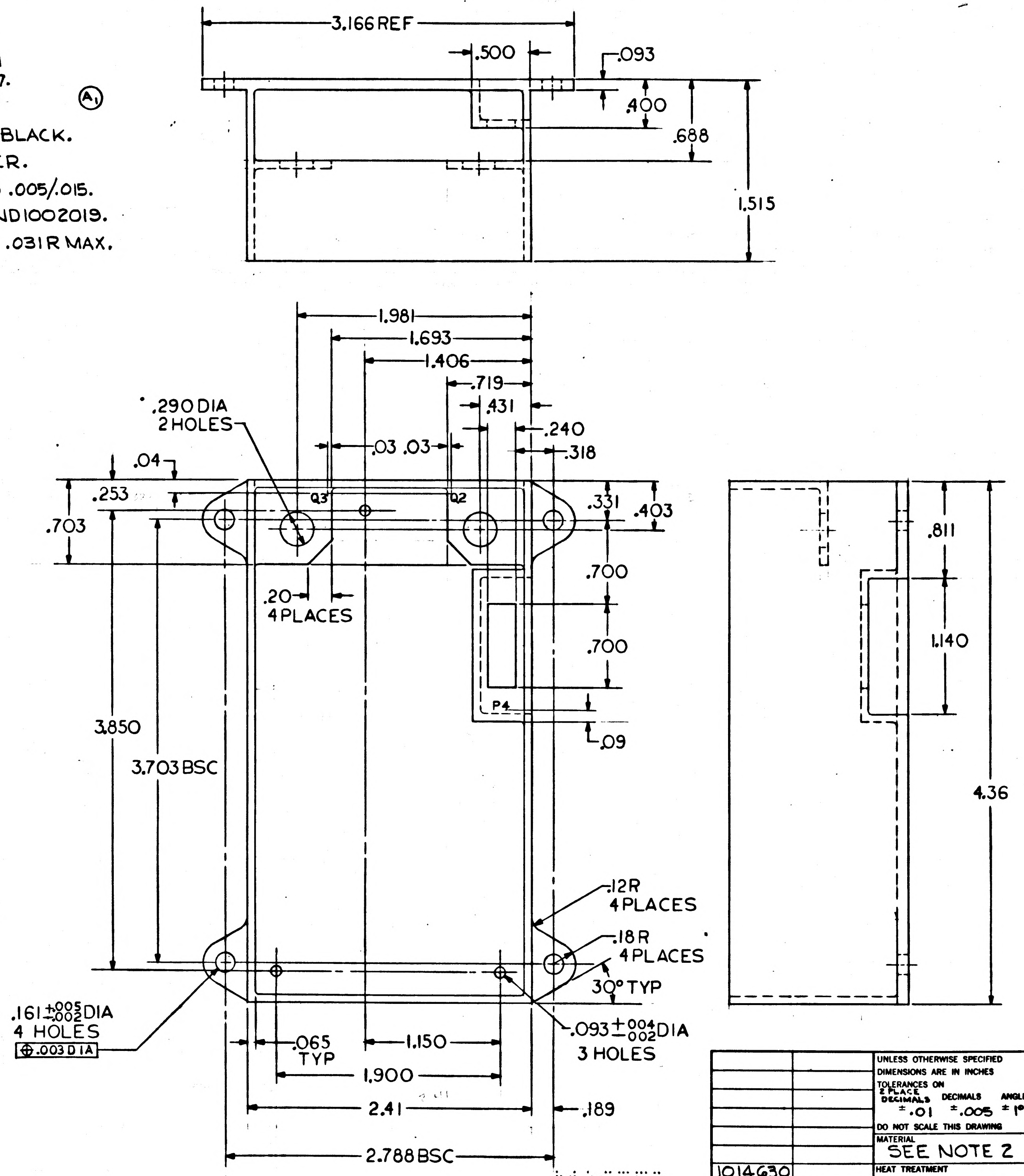
1014630	SH 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS TDRR 07680

SYM	DESCRIPTION	DATE	APPROVAL
A1	REVISED PER TDRR NO. 08455	19 MAY 64	WK

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: INVESTMENT CASTING ALUMINUM PER QQ-A-596 CLASS 8, COND T6 (A1)
3. FINISH: ANODIZE PER MIL-A-8625 TYPE II BLACK.
4. UNLESS OTHERWISE SPECIFIED: 125√ ALL OVER.
5. REMOVE ALL BURRS & BREAK SHARP EDGES .005/.015.
6. MARK CHARACTERS .06 HIGH WHITE PER ND1002019.
7. UNLESS OTHERWISE SPECIFIED ALL FILLETS .031R MAX.


3.166 REF
.500
.093
.400
.688
1.515
1.981
1.693
1.406
.719
.431
.240
.318
.290 DIA
2 HOLES
.03 .03
.04
.253
.703
Q3
Q2
.331
.403
.811
.700
.700
1.140
.20
4 PLACES
3.850
3.703 BSC
P4
.09
4.36
.12R
4 PLACES
.18R
4 PLACES
30° TYP
.161 +.005 -.002 DIA
4 HOLES
⌖ .003 DIA
.065
TYP
1.150
1.900
2.41
.189
2.788 BSC
.093 +.004 -.002 DIA
3 HOLES

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014630	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON 2 PLACE DECIMALS ±.01 DECIMALS ±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
HEAT TREATMENT
FINAL FINISH SEE NOTE 3

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.
CONTRACT
DRAWN J.A. LIMA DATE 15 FEB 64
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 4/10/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING
AMPLIFIER AND SWITCH MODULE

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014631
SCALE 2:1
WT
SHEET 1 OF 1

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

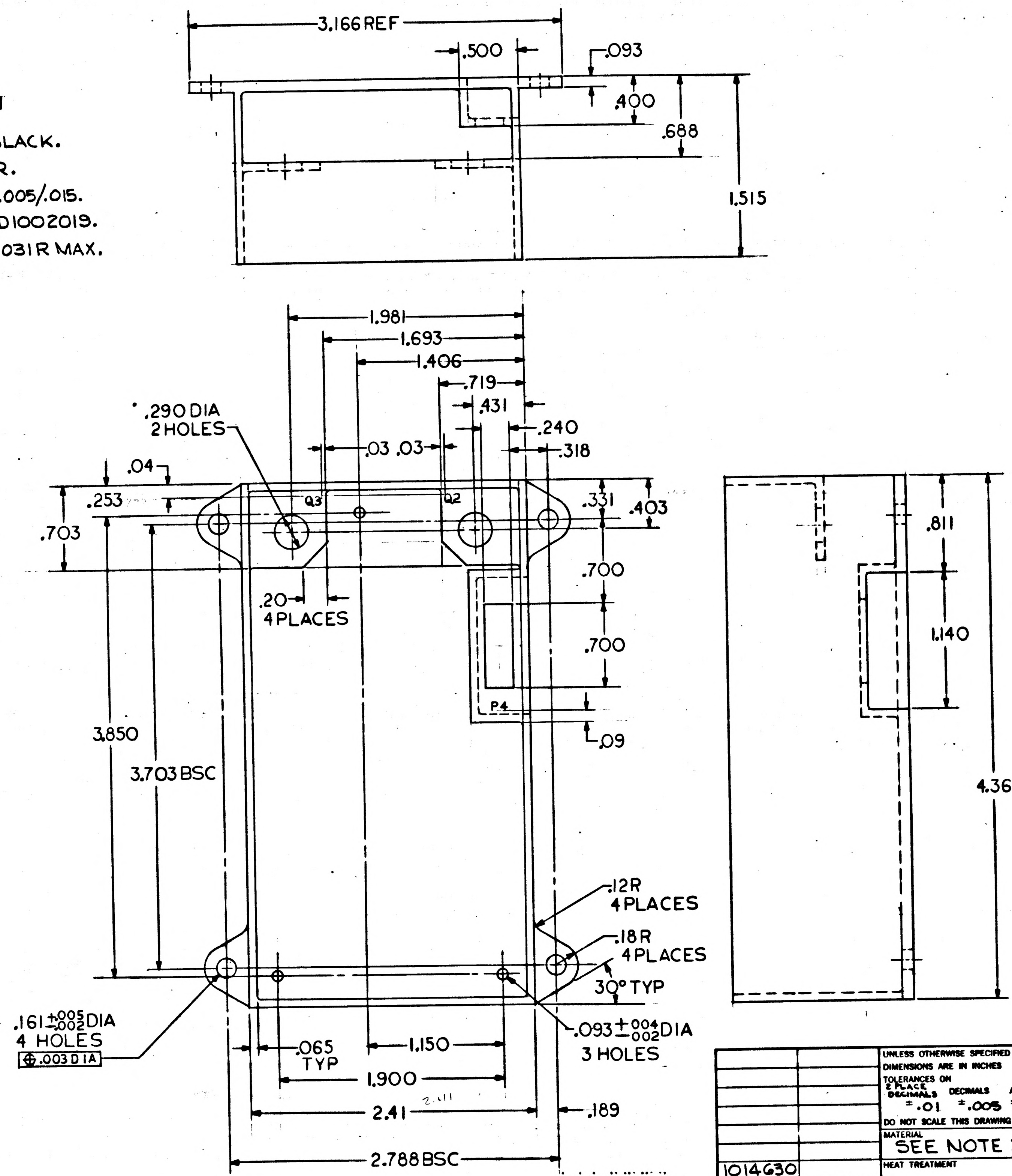
REVISIONS TDRR 07680

SYM	DESCRIPTION	DATE	APPROVAL

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: PERMANENT MOLD CASTING ALUMINUM PER QQ-A-596, COMPOSITION 7, COND F
3. FINISH: ANODIZE PER MIL-A-8625 TYPE II BLACK.
4. UNLESS OTHERWISE SPECIFIED: 125√ ALL OVER.
5. REMOVE ALL BURRS & BREAK SHARP EDGES .005/.015.
6. MARK CHARACTERS .06 HIGH WHITE PER ND1002019.
7. UNLESS OTHERWISE SPECIFIED ALL FILLETS .031R MAX.


3.166 REF
.500
.093
.400
.688
1.515
1.981
1.693
1.406
.719
.431
.240
.318
.290 DIA
2 HOLES
.03 .03
.04
.253
.703
Q3
Q2
.331
.403
.811
.700
.700
1.140
.20
4 PLACES
P4
.09
3.850
3.703 BSC
4.36
.12R
4 PLACES
.18R
4 PLACES
30° TYP
.161 +.005 −.002 DIA
4 HOLES
⊕ .003 DIA
.065
TYP
1.150
.093 +.004 −.002 DIA
3 HOLES
1.900
2.41
2.411
.189
2.788 BSC

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014630	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.01 DECIMALS ±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
HEAT TREATMENT
FINAL FINISH SEE NOTE 3

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN J A LIMA DATE 15 FEB 64
CHECKED
APPROVAL 2/9/64
APPROVAL
NASA APPROVAL
MIT APPROVAL 4/10/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING
AMPLIFIER AND SWITCH MODULE

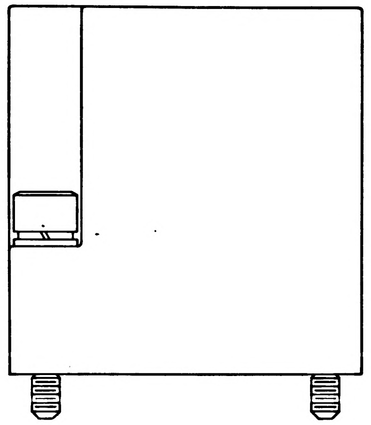
CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014631
SCALE 2:1
WT
SHEET 1 OF

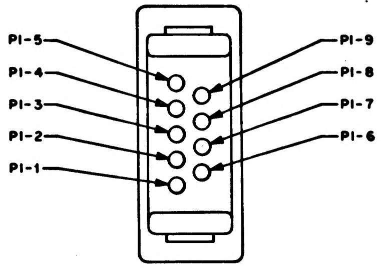
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER. AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

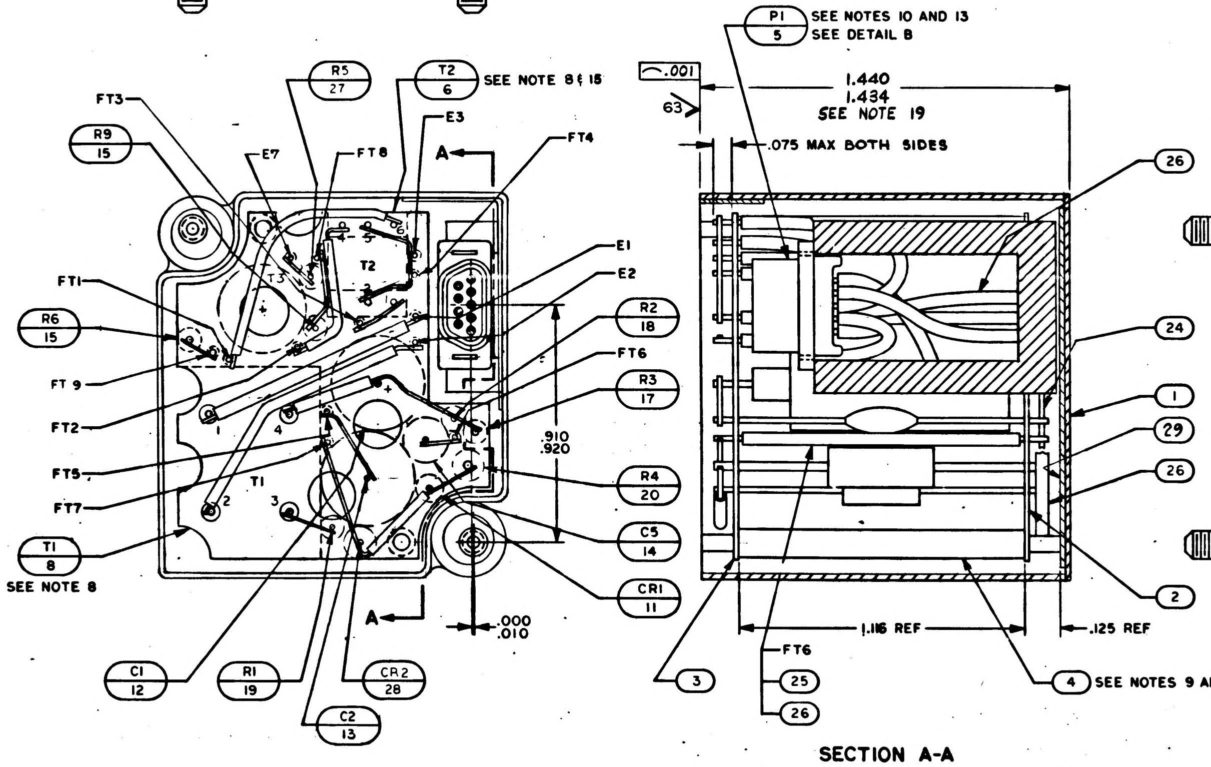
REVISIONS — 3			
SYM	DESCRIPTION	DATE	APPROVAL
A₁	REVISED PER DO 55800	13 JUNE 64	RWR
B₁	REVISED PER DC 68526	22 SEP 64	DAS
C₁	COMPLETELY REVISED DO 58518	3 DEC 64	W.E.

WIRING DATA		
FROM CIRCUIT POINT	TO CIRCUIT POINT	CIRCUIT FUNCTION
P1-1	E1	INPUT HI
P1-2	E2	INPUT LO
P1-3	E3	28 VOLTS DC GRD
P1-4	E4	OUTPUT −
P1-5	E5	+28 VOLTS DC
P1-6	E6	28V RMS 800 CPS HI
P1-7	E7	28V RMS 800 CPS LO
P1-8	E8	OUTPUT +
P1-9	SPARE	

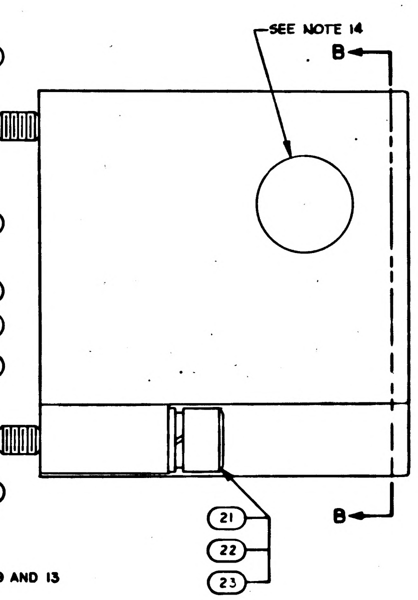


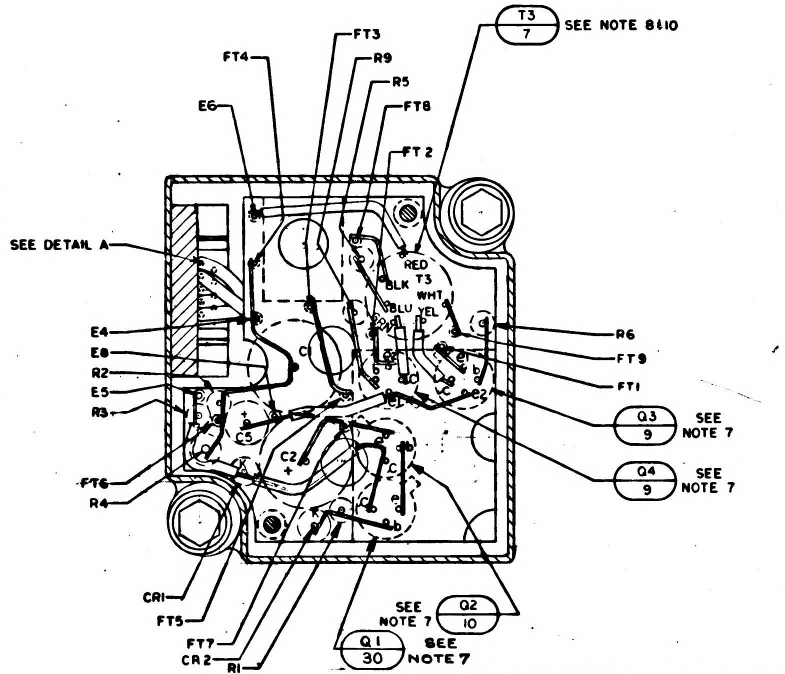

P1-5
P1-4
P1-3
P1-2
P1-1
P1-9
P1-8
P1-7
P1-6

DETAIL A
CONNECTOR TERMINAL IDENTIFICATION VIEW
NO SCALE

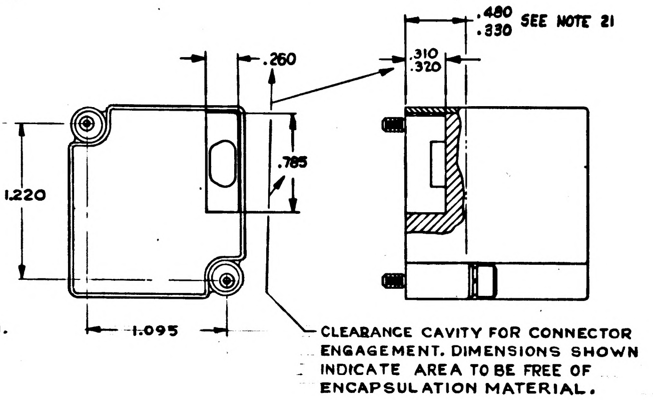

P1 5 SEE NOTES 10 AND 13
SEE DETAIL B
R5 27
T2 6 SEE NOTE 8 & 15
E3
FT3
R9 15
E7
FT8
A
FT4
FT1
R6 15
FT 9
FT2
FT5
FT7
T1 8 SEE NOTE 8
T3
T2
T1
E1
E2
R2 18
FT6
R3 17
R4 20
C5 14
CR1 11
.910
.920
.000
.010
A
C1 12
R1 19
CR2 28
C2 13
.001
63
1.440
1.434
SEE NOTE 19
.075 MAX BOTH SIDES
26
24
1
29
26
2
3
FT6
25
26
1.116 REF
.125 REF
4 SEE NOTES 9 AND 13

SECTION A-A


SEE NOTE 14
B
B
21
22
23

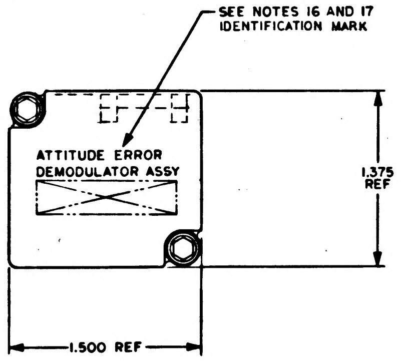

T3 7 SEE NOTE 8&10
FT3
FT4
R9
R5
E6
FT8
FT2
SEE DETAIL A
E4
E8
R2
E5
R3
FT6
R4
RED
BLK
T3
WHT
BLU
YEL
R6
FT9
FT1
Q3 9 SEE NOTE 7
Q4 9 SEE NOTE 7
CR1
FT5
FT7
CR2
R1
Q1 30 SEE NOTE 7
SEE NOTE 7 Q2 10

SECTION B-B


.480
.330 SEE NOTE 21
.260
.310
.320
.785
1.220
1.095

CLEARANCE CAVITY FOR CONNECTOR ENGAGEMENT. DIMENSIONS SHOWN INDICATE AREA TO BE FREE OF ENCAPSULATION MATERIAL.

DETAIL B
ENCAPSULATION CONFIGURATION DATA
SCALE: 2:1


SEE NOTES 16 AND 17
IDENTIFICATION MARK
ATTITUDE ERROR
DEMODULATOR ASSY
1.375
REF
1.500 REF

MARKING VIEW
SCALE: 2:1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2.
3. ALL WELDS TO BE PER ND1002069
4. K DENOTES CATHODE END OF DIODE
5. FT DENOTES FEED THRU
6. AR DENOTES AS REQUIRED
7. BOND ITEM NUMBERS 9 AND 10 TO ITEM NO. 2 PER ND1002004 TYPE I.
8. BOND ITEM NUMBERS 6, 7 & 8 TO ITEM NO. 3 PER ND1002004 TYPE I.
9. BOND ITEM NO. 4 TO ITEM NUMBERS 2 AND 3 PER ND1002004 TYPE I.
10. SPARE LEAD ON ITEM NUMBERS 5 AND 7 TO BE CUT TO .030 TO .090 LENGTH.
11.
12. INSPECT PER PS 1007034.
13. BOND ITEM NUMBERS 4 AND 5 TO ITEM NO. 1 PER ND1002004 TYPE I.
14. ENCAPSULATION MATERIAL TO BE FLUSH WITH SURFACE OF HOUSING. ITEM NO. 1
15. LEAD NO. 3 ON ITEM NUMBER 6 TO BE CUT .030 TO .090 LENGTH.
16. SERIALIZE AND MARK .100 TO .140 HIGH WHITE PER ND1002023
17. IDENTIFY AS SHOWN USING DRAWING NO. PREFIXED BY "ASSY" AND REVISION LETTER PER ND 1002019, .100 TO .140 HIGH, COLOR WHITE.
18.
19. MACHINE TO DIMENSION SHOWN AFTER ENCAPSULATION.
20. THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES.
21. ENCAPSULATE MODULE PER ND1002036 TO .330/.480 USING ITEMS 31 AND 32. THEN ENCAPSULATE REMAINDER OF MODULE PER ND 1002002 USING ITEMS 33 AND 34.

QUANTITY REQ'D						
		011	ITEM NO.	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
		REF			1014637	SCHEMATIC
		A/R	34		1010798-1	POLY-FOAM, BLK
		A/R	33		1010798-2	POLY-FOAM, BLK
		A/R	32		1010306	CATALYST
		A/R	31		1010305	EPOXY RESIN
		1	30		1010397-1	TRANSISTOR
		1	29		1015024	INSULATOR, PLATE
		1	28		1010385	DIODE (FAST SWITCHING)
		1	27		1006750-39	RESISTOR
		A/R	26		1006776-21	INSULATION, SLEEVING, ELECTRICAL
		A/R	25		1006787-2	WIRE, ELECTRICAL
		A/R	24		1006757-1	WIRE, ELECTRICAL
		2	23		MS35338-78	WASHER, LOCK
		2	22		MS15795-303	WASHER, FLAT
		2	21		1008069-1	SCREW, SOC HD, EXT RELIEVED BODY
		1	20		1010604-38	RESISTOR
		1	19		1006750-80	RESISTOR
		1	18		1006750-72	RESISTOR
		1	17		1006750-46	RESISTOR
			16			
		2	15		1006750-25	RESISTOR
		1	14		1010279-250	CAPACITOR
		1	13		1006755-85	CAPACITOR
		1	12		1006755-77	CAPACITOR
		1	11		1010372-13	DIODE (VOLTAGE REGULATOR)
		1	10		1010357-1	TRANSISTOR
		2	9		1010367	TRANSISTOR
		1	8		1010454	TRANSFORMER
		1	7		1010315-1	TRANSFORMER
		1	6		1010291-5	TRANSFORMER
		1	5		1010318-2	CONNECTOR
		2	4		1015028	SPACER
		1	3		1014640	WIRING BOARD, BOTTOM
		1	2		1014639	WIRING BOARD, TOP
		1	1		1015026	HOUSING

LIST OF MATERIALS

1015065-011	1015023-011	011
NEXT ASS'Y	USED ON	APPLICABLE DASH NO.
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.005 — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
CONTRACT NAS 9-497
DWG NO
DRAWN R. LaBue DATE
CHECKED Taylor 3 JUN 64
APPROVAL R. 3 JUN 64
APPROVAL S.C. 11-4-64
NASA APPROVAL 11-18-64
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

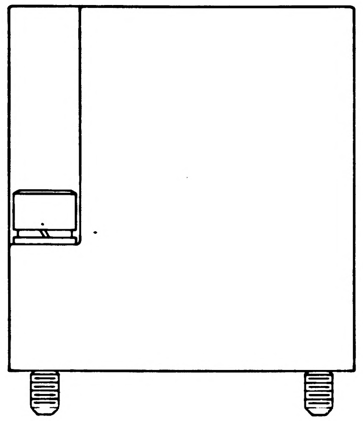
ATTITUDE ERROR DEMODULATOR ASSY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014638
SCALE 4:1
WT
SHEET 1 OF 1

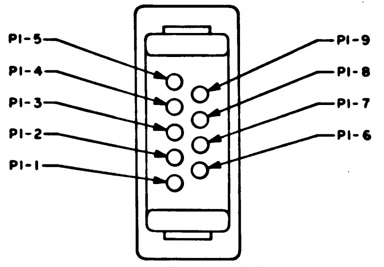
1014638 C

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

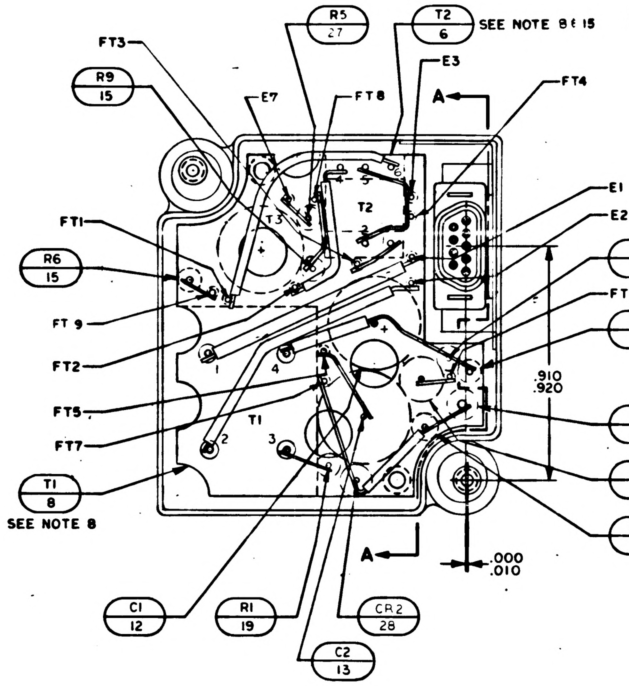
REVISIONS 4366			
SYM	DESCRIPTION	DATE	APPROVAL
A1	REVISED PER DO 55800	15 JUNE 64	RL
B1	REVISED PER DO 58526	22 SEP 64	L.S.
C1	COMPLETELY REVISED DO 58518	3 OCT 64	WF
D	REVISED PER TORR 16987	3 MAR 65	WP

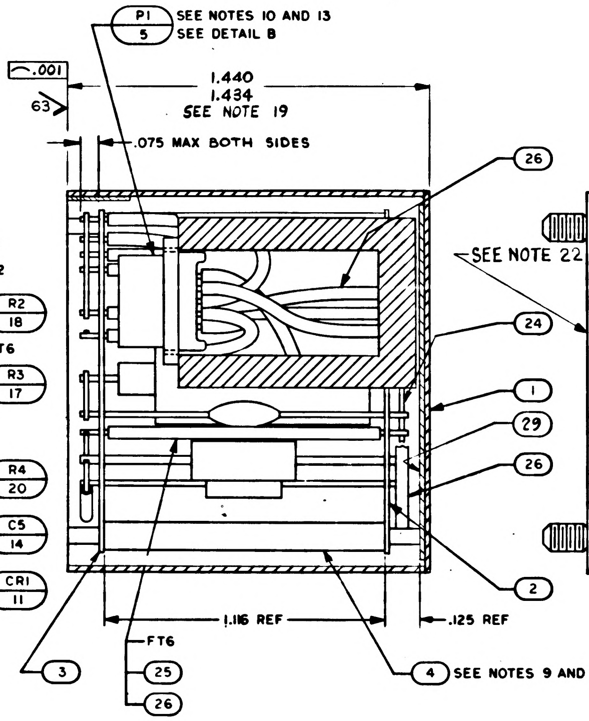


WIRING DATA		
FROM CIRCUIT POINT	TO CIRCUIT POINT	CIRCUIT FUNCTION
P1-1	E1	INPUT HI
P1-2	E2	INPUT LO
P1-3	E3	28 VOLTS DC GRD
P1-4	E4	OUTPUT -
P1-5	E5	+28 VOLTS DC
P1-6	E6	28V RMS 800 CPS HI
P1-7	E7	28V RMS 800 CPS LO
P1-8	E8	OUTPUT +
P1-9	SPARE	

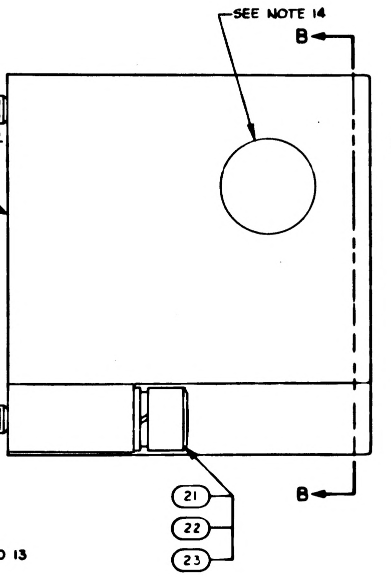

P1-5
P1-4
P1-3
P1-2
P1-1
P1-9
P1-8
P1-7
P1-6

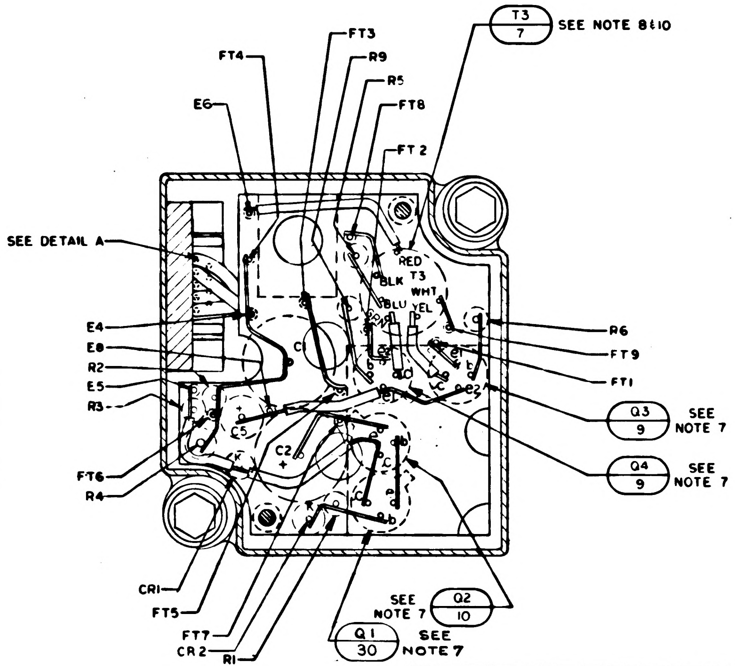
DETAIL A
CONNECTOR TERMINAL
IDENTIFICATION VIEW
NO SCALE


FT3
R9 15
R5 27
T2 6
SEE NOTE 8 & 15
E3
E7
FT8
A
FT4
FT1
R6 15
FT 9
FT2
FT5
FT7
T1 8
SEE NOTE 8
T3
T2
T1
E1
E2
R2 18
FT6
R3 17
.910
.920
R4 20
C5 14
CR1 11
A
.000
.010
C1 12
R1 19
CR2 28
C2 13


P1 5
SEE NOTES 10 AND 13
SEE DETAIL B
.001
63
1.440
1.434
SEE NOTE 19
.075 MAX BOTH SIDES
26
SEE NOTE 22
24
1
29
26
2
1.116 REF
.125 REF
FT6
3
25
26
4
SEE NOTES 9 AND 13

SECTION A-A


SEE NOTE 14
B
B
21
22
23

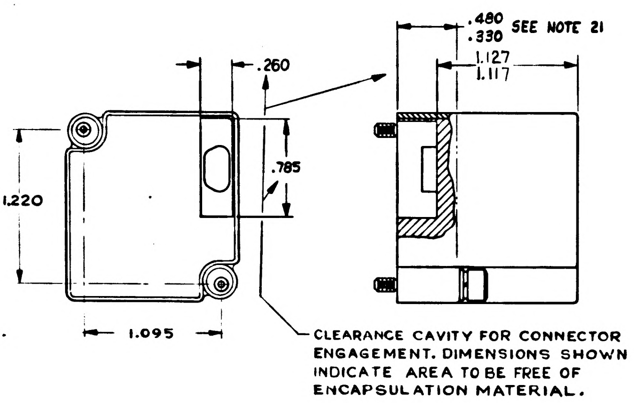

T3 7
SEE NOTE 8&10
FT4
FT3
R9
R5
FT8
FT2
E6
SEE DETAIL A
RED
T3
BLK
WHT
BLU
YEL
E4
E8
R2
E5
R3
R6
FT9
FT1
Q3 9
SEE NOTE 7
Q4 9
SEE NOTE 7
FT6
R4
C5
C2
CR1
FT5
FT7
CR2
R1
Q2 10
SEE NOTE 7
Q1 30
SEE NOTE 7

SECTION B-B

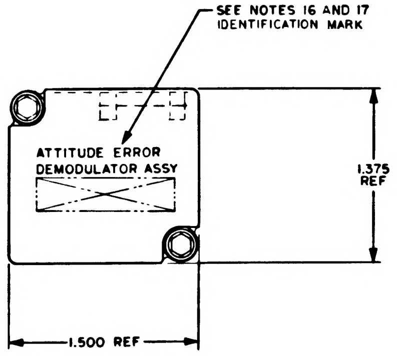
QUANTITY REQ'D					LIST OF MATERIALS	
		011	ITEM NO.	SYM	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
		REF			1014637	SCHEMATIC
		A/R	34		1010798-1	POLY-FOAM, BLK
		A/R	33		1010798-2	POLY-FOAM, BLK
		A/R	32		1010306	CATALYST
		A/R	31		1010305	EPOXY RESIN
		1	30		1010397-1	TRANSISTOR
		1	29		1015024	INSULATOR, PLATE
		1	28		1010385	DIODE (FAST SWITCHING)
		1	27		1006750-39	RESISTOR
		A/R	26		1006776-21	INSULATION, SLEEVING, ELECTRICAL
		A/R	25		1006787-2	WIRE, ELECTRICAL
		A/R	24		1006757-1	WIRE, ELECTRICAL
		2	23		MS35338-78	WASHER, LOCK
		2	22		MS15795-303	WASHER, FLAT
		2	21		1008069-1	SCREW, SOC HD, EXT RELIEVED BODY
		1	20		1010604-38	RESISTOR
		1	19		1006750-80	RESISTOR
		1	18		1006750-72	RESISTOR
		1	17		1006750-46	RESISTOR
			16			
		2	15		1006750-25	RESISTOR
		1	14		1010279-250	CAPACITOR
		1	13		1006753-85	CAPACITOR
		1	12		1006755-77	CAPACITOR
		1	11		1010372-13	DIODE (VOLTAGE REGULATOR)
		1	10		1010357-1	TRANSISTOR
		2	9		1010367	TRANSISTOR
		1	8		1010454	TRANSFORMER
		1	7		1010315-1	TRANSFORMER
		1	6		1010291-5	TRANSFORMER
		1	5		1010318-2	CONNECTOR
		2	4		1015028	SPACER
		1	3		1014640	WIRING BOARD, BOTTOM
		1	2		1014639	WIRING BOARD, TOP
		1	1		1015026	HOUSING

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2.
3. ALL WELDS TO BE PER ND1002069
4. K DENOTES CATHODE END OF DIODE
5. FT DENOTES FEED THRU
6. AR DENOTES AS REQUIRED
7. BOND ITEM NUMBERS 9 AND 10 TO ITEM NO. 2 PER ND1002004 TYPE I.
8. BOND ITEM NUMBERS 6, 7 & 8 TO ITEM NO. 3 PER ND1002004 TYPE I.
9. BOND ITEM NO. 4 TO ITEM NUMBERS 2 AND 3 PER ND1002004 TYPE I.
10. SPARE LEAD ON ITEM NUMBERS 5 AND 7 TO BE CUT TO .030 TO .090 LENGTH.
11.
12. INSPECT PER PS 1007034.
13. BOND ITEM NUMBERS 4 AND 5 TO ITEM NO. 1 PER ND1002004 TYPE I.
14. ENCAPSULATION MATERIAL TO BE FLUSH WITH SURFACE OF HOUSING. ITEM NO. 1
15. LEAD NO 3 ON ITEM NUMBER 6 TO BE CUT .030 TO .090 LENGTH.
16. SERIALIZE AND MARK .100 TO .140 HIGH WHITE PER ND1002023
17. IDENTIFY AS SHOWN USING DRAWING NO. PREFIXED BY "ASSY" AND REVISION LETTER PER ND 1002019, .100 TO .140 HIGH, COLOR WHITE.
18.
19. MACHINE TO DIMENSION SHOWN AFTER ENCAPSULATION.
20. THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES.
21. ENCAPSULATE MODULE PER ND1002036 TO .330/.480 USING ITEMS 31 AND 32. THEN ENCAPSULATE REMAINDER OF MODULE PER ND 1002002 USING ITEMS 33 AND 34.
22. APPLY CHEMICAL FILM PER MIL C-5541 TO MACHINED BRIGHT ALUMINUM USING BRUSH METHOD.


.260
.785
1.220
1.095
.480
.330
SEE NOTE 21
1.127
1.117
CLEARANCE CAVITY FOR CONNECTOR ENGAGEMENT. DIMENSIONS SHOWN INDICATE AREA TO BE FREE OF ENCAPSULATION MATERIAL.

DETAIL B
ENCAPSULATION CONFIGURATION
DATA
SCALE: 2:1


SEE NOTES 16 AND 17
IDENTIFICATION MARK
ATTITUDE ERROR
DEMODULATOR ASSY
1.375 REF
1.500 REF

MARKING VIEW
SCALE: 2:1

1015065-011	1015023-011	011
NEXT ASS'Y	USED ON	APPLICABLE DASH NO
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.005 — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
CONTRACT NAS 9 4065
DRAWN R. LaBue DATE 31 APR 64
CHECKED Fesler 3 JUN 64
APPROVAL
APPROVAL A.C. Smith 11-4-64
NASA APPROVAL
MIT APPROVAL

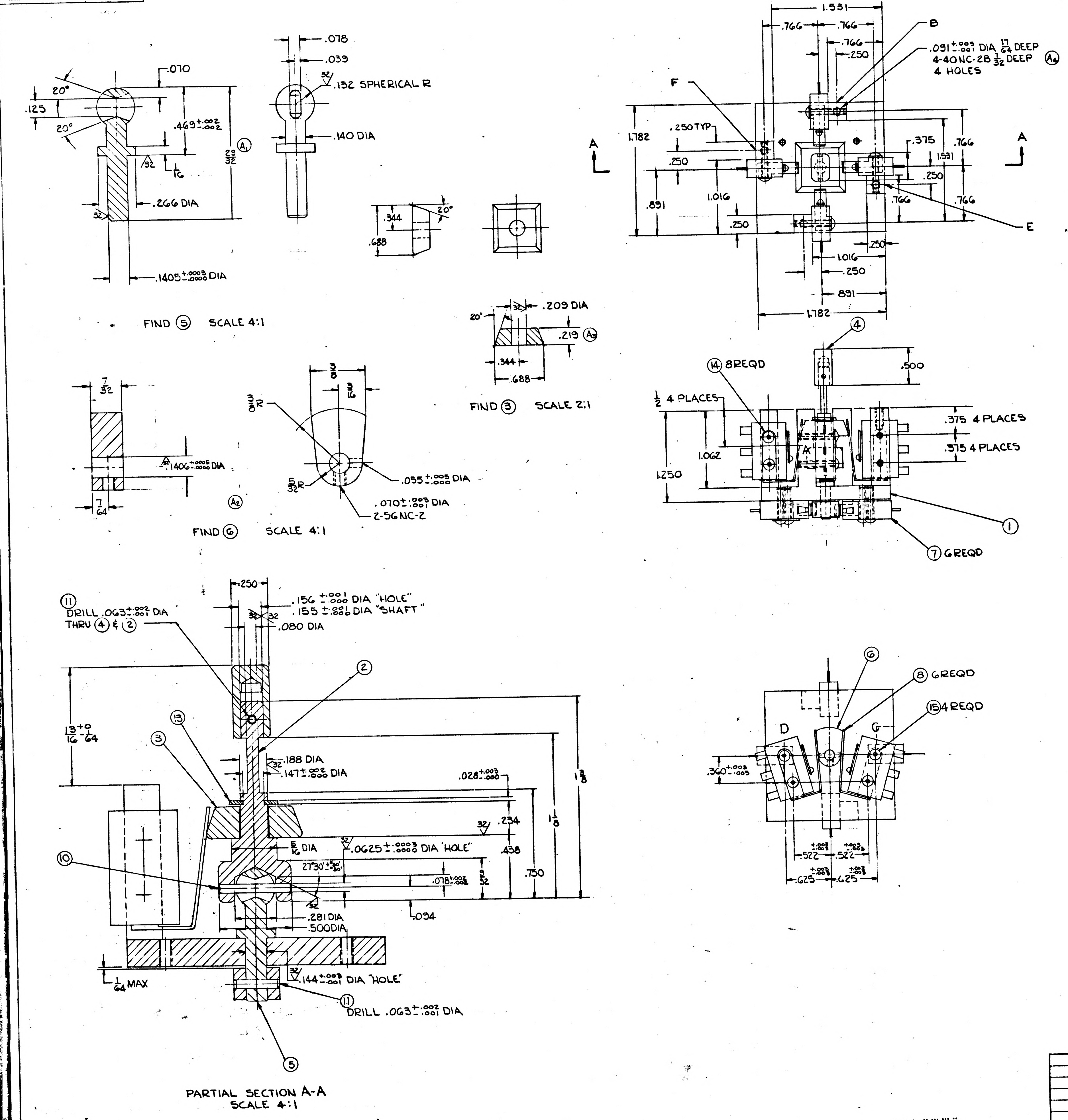
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ATTITUDE ERROR DEMODULATOR ASSY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014638
SCALE 4:1
WT
SHEET 1 OF 1

1014638 D

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A8	(A1) 29/32 WAS 1 3/64 (A2) REVISED FIND 6. (A3) ADDED .219 (A4) WAS 2-56NC-2B (A5) REMOVE FIND 9 8/0 x 3/8 LG TAPER PIN (A6) FIND 11 WAS 1 REQD (A7) ADDED PT NO.'S FIND 7 & 10		
	(A8) REPLACED BY REV B WITH CHANGE TDRR 02379	17 JULY 63	7/31/63 WK



FIND ⑤ SCALE 4:1
.070
20°
.125
20°
.469 +.002 -.002
29/32 (A1)
32
1/16
.266 DIA
.1405 +.0003 -.0000 DIA
.078
.039
.132 SPHERICAL R
.140 DIA
.344
.688
20°
FIND ③ SCALE 2:1
.209 DIA
.219 (A3)
.344
.688
FIND ⑥ SCALE 4:1
7/32
.1406 +.0005 -.0000 DIA
7/64
(A2)
3/8 R
3/8
3/16
5/32 R
.055 +.005 -.005 DIA
.070 +.001 -.001 DIA
2-56NC-2
1.531
.766
.766
.250
B
.091 +.003 -.001 DIA 17/64 DEEP
4-40NC-2B 1/32 DEEP (A4)
4 HOLES
F
.250 TYP
1.782
.250
.891
1.016
.250
A
A
.375
1.531
.766
.250
.766
.766
E
.250
1.016
.250
.891
1.782
④
⑭ 8REQD
1/2 4 PLACES
.500
.375 4 PLACES
.375 4 PLACES
1.062
1.250
①
⑦ 6REQD
⑥
⑧ 6REQD
⑮ 4REQD
D
G
.360 +.003 -.003
.522 +.003 -.003
.522 +.003 -.003
.625 +.003 -.003
.625 +.003 -.003
.250
⑪
DRILL .063 +.002 -.001 DIA THRU ④ & ②
.156 +.001 -.000 DIA "HOLE"
.155 +.000 -.001 DIA "SHAFT"
.080 DIA
②
⑬
③
13/16 +0 -1/64
.188 DIA
.147 +.002 -.000 DIA
.028 +.003 -.000
1 3/8
1 1/8
32 .234
5/16 DIA
.0625 +.0003 -.0000 DIA "HOLE"
.438
⑩
27°30' ±0°30'
.078 +.002 -.002
9/32
.750
.281 DIA
.500 DIA
.094
1/64 MAX
.144 +.003 -.001 DIA "HOLE"
⑪
DRILL .063 +.002 -.001 DIA
⑤
PARTIAL SECTION A-A
SCALE 4:1

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00601 DATE 20 MAR 1963

MARK CHARACTERS 1/8 HIGH PER

REPLACED BY REV B WITH CHANGE

FIND NO	QUAN	PART NO.	DESCRIPTION	MATERIAL	REMARKS
15	4	1000093-5	SCREW BUTTON HD SELF LOCKING SOCKET HD		
14	8	1000093-6	SCREW BUTTON HD SELF LOCKING SOCKET HD		
13	1	MS16633-4018	RING-RETAINING		
12					
11	2	MS171433	PIN-SPRING		
10	1	MS16555-606	PIN-STRIAGHT		1/16 DIA x 1/2 LG ACSK PT NO. 8599186-055
9					
8	6		ACTUATOR-AUXILIARY		
7	6	1010435-001	SWITCH-BASIC		MICRO SWITCH #1HM1
6	1	1014644	CAM		
5	1	1014645	SHAFT		
4	1	1014646	PAD		
3	1	1014647	ACTUATOR		
2	1	1014648	SHAFT & HANDLE	QQ-S-763 CLASS 303 OR 303Se COND A CF	FINISH: MIL-F-14072 (SIGC) FIN 300
1	1	1014649	HOUSING	QQ-A-268 TEMPER T-4	FINISH: MIL-A-8625 TYPE I

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ±.005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE LIST OF MAT'L
HEAT TREATMENT
FINAL FINISH SEE LIST OF MAT'L

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN J a Lima DATE 3-16-63
CHECKED
APPROVAL 5-16-63
MIT APPROVAL
NASA APPROVAL
MIT APPROVAL 20 Mar 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SWITCH ASSY-
ATTITUDE IMPLUSE

CODE IDENT NO
SIZE E
NASA DRAWING NO. 1014643
SCALE 2:1
WT
SHEET OF

1014643 A

MASTER

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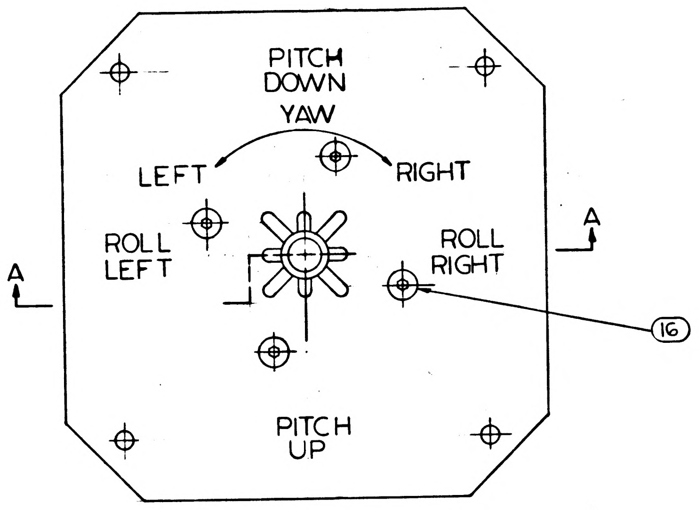
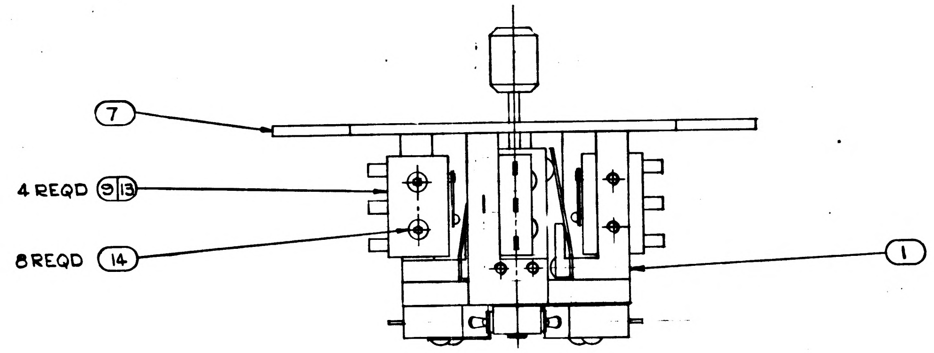
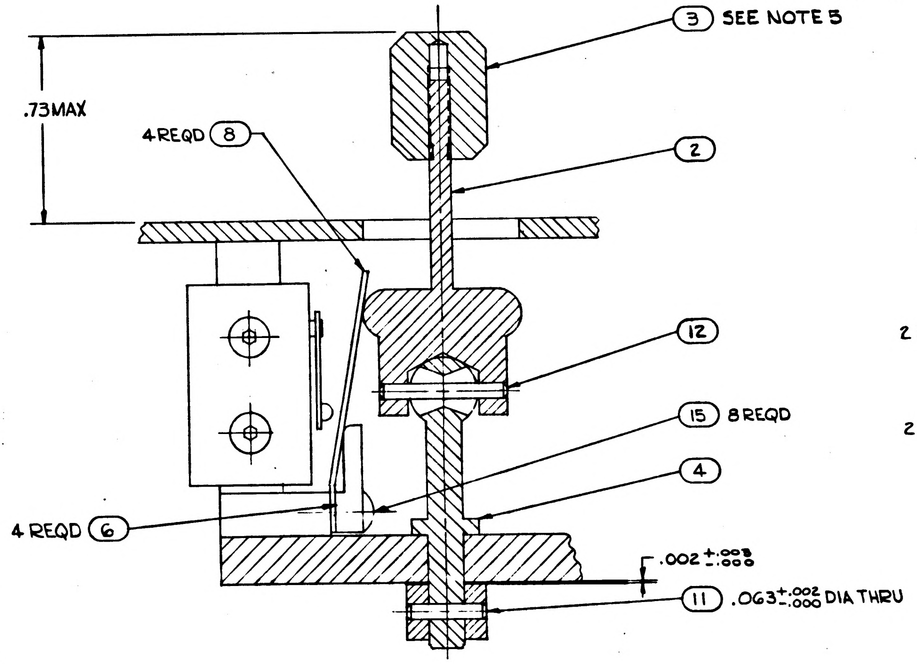
1. INTERPERT DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBE BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP CORNERS.
3. IDENTIFY USING DRAWING NUMBER AND APPLICABLE DASH NUMBER, REVISION LETTER, AND MANUFACTURERS SYMBOL PER MIL-STD-130.
4. SEATING TORQUE FOR FIND (14) SHALL NOT EXCEED 2.6 IN. LBS.
5. SECURE FIND (3) USING FIND (17) PER ND1002211.
6. FIND (18) TO BE FLUSH WITH FIND (1)

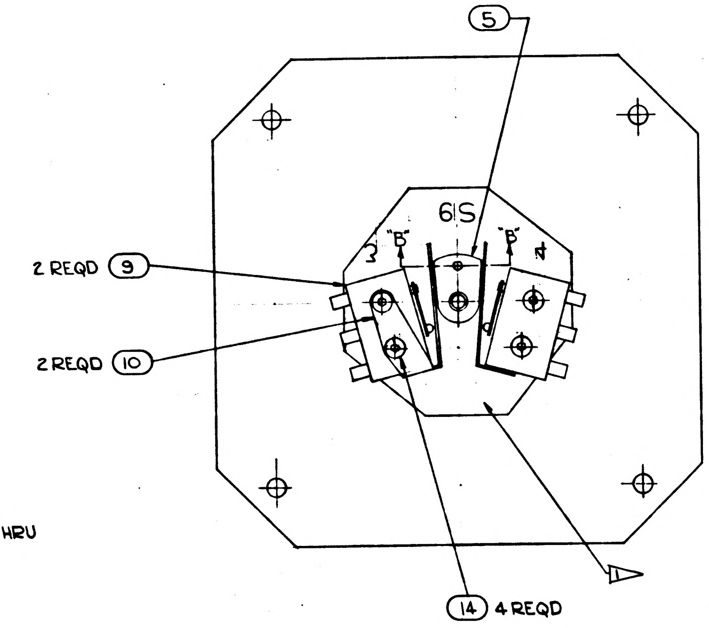
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B1	(B1) REPLACES REV.A WITH CHANGE - REVISED PARTS LIST & REVISED PICTURE - & UPGRADE TO CLASS "A" TDRR 02379	17 July 63	

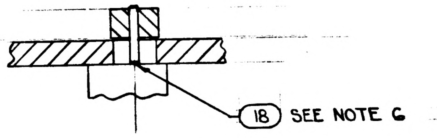






PARTIAL VIEW A-A
SCALE 4:1





PARTIAL VIEW B-B

(B) REPLACES REVISION A WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	MS171435	PIN SPRING	18
AR	MIL-S-40083(ORD) CLASS 10	LIQUID LOCK	17
4	1010477-12	SCREW, FLAT HD	16
8	1010618-3	SCREW, BUTTON HD	15
12	1010618-5	SCREW, BUTTON HD	14
4	1010606	INSULATOR, SWITCH	13
1	MS171436	PIN, SPRING	12
1	MS171433	PIN, SPRING	11
2	1010457-2	ACTUATOR, AUXILIARY	10
6	1010435-1	SWITCH, BASIC	9
4	1014653	ACTUATOR SPRING	8
1	1014589	PLATE, MOUNTING	7
4	1014652	STOP BLOCK	6
1	1014644	CAM, ACTUATOR	5
1	1014645	SHAFT, FULCRUM	4
1	1014646	KNOB, SHAFT ACTUATOR	3
1	1014648	ACTUATOR & SHAFT	2
1	1014649	HOUSING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014578	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02 DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO CONTRACT
DRAWN JaLIMA DATE 15 MAR 63
CHECKED MALIKOWSKI 12 APR 63
APPROVAL MIELENZ 16 APR 63
APPROVAL KODEL 18 APR 63
7/26/63
NASA APPROVAL 8/2/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SWITCH-
ATTITUDE IMPLUSE
ASSY

CODE IDENT NO. SIZE E NASA DRAWING NO. 1014643
SCALE 2:1 WT SHEET 1 OF 1

1014643 B

MASTER

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

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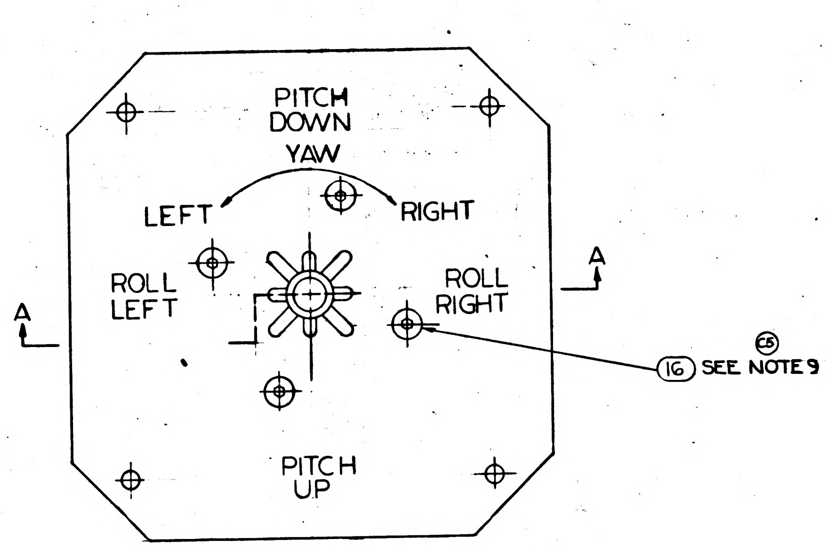
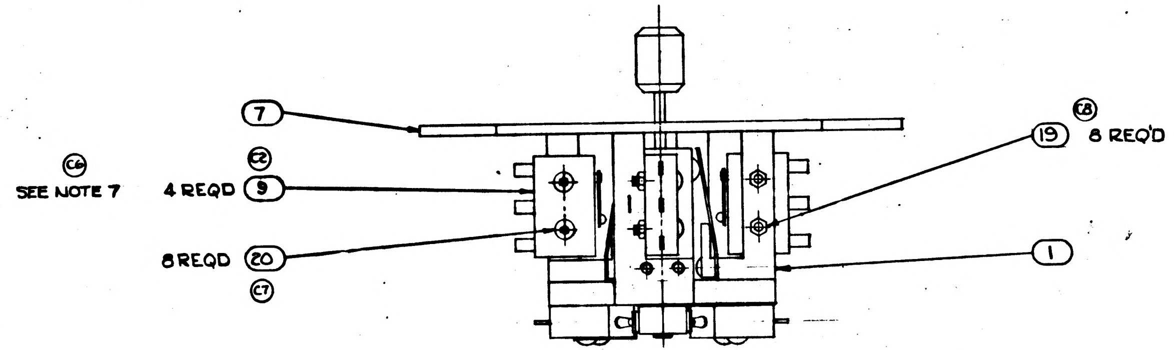
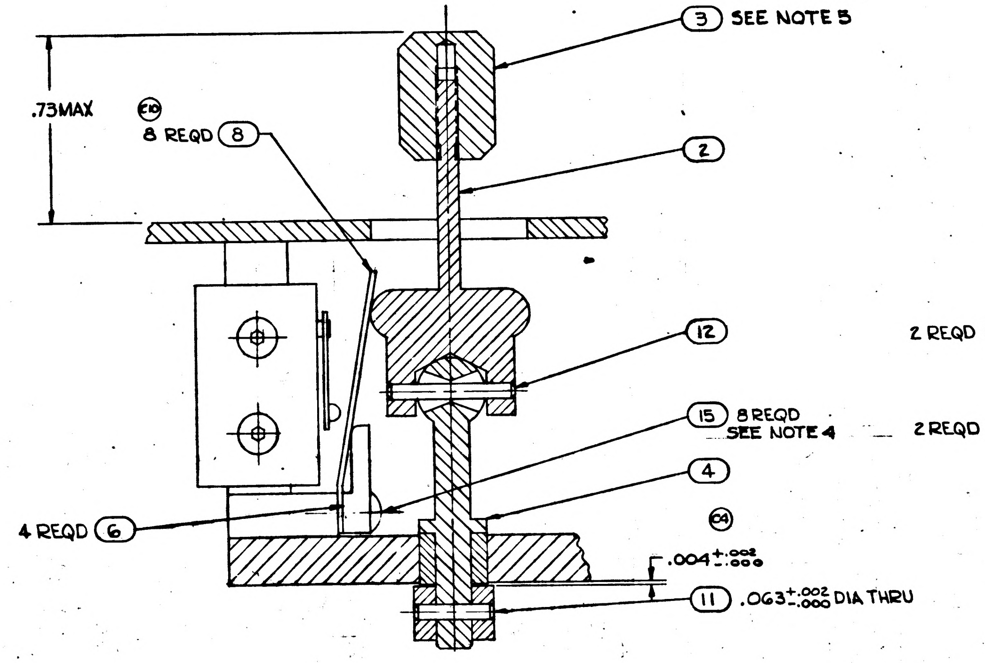
1. INTERPERT DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBE BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP CORNERS.
3. (C15) IDENTIFY USING DRAWING NUMBER AND APPLICABLE DASH NUMBER, REVISION LETTER, AND MANUFACTURERS SYMBOL AND SERIALIZE PER ND1002023.
4. (C1) TORQUE: 3.4 TO 3.6 IN-LBS.
5. SECURE FIND (3) USING FIND (17) PER ND1002211.
6. FIND (18) TO BE FLUSH WITH FIND (1)
7. (C12) BOND FIND 9 (4 ONLY) TO FIND 1, USING FIND 21 & 22, PER ND1002004 SEMI-RIGID COMPOSITION.
   PROCEDURE:
   a. APPLY EPOXY TO INTERFACES OF FIND 9 AND FIND 1.
   b. ASSEMBLE USING FIND 19 AND FIND 20, ADJUSTING FIND 9 PER NOTE 8.
   c. TORQUE FIND 20 PER NOTE 4, THEN CURE.
8. (C13) IN THE FOUR CARDINAL DIRECTIONS, ADJUST FIND 9 SUCH THAT ACTUATION WILL OCCUR WHEN THE SHAFT OF FIND 2 IS .04 FROM THE CLOSED END OF THE SLOT IN FIND 7.
9. (C14) TORQUE: 6.3 TO 6.8 IN-LBS.

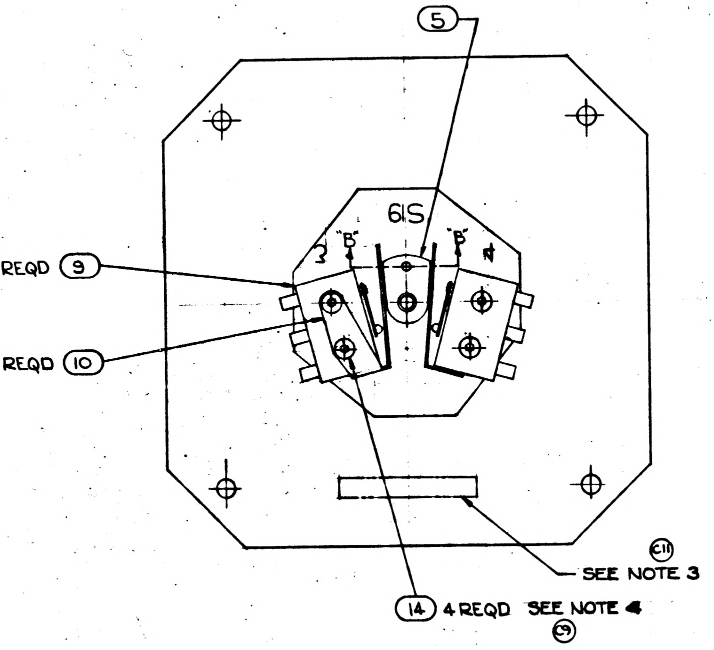
SYM	DESCRIPTION	DATE	APPROVAL
(4) B1	(B1) REPLACES REV. A WITH CHANGE - REVISED PARTS LIST & REVISED PICTURE, - & UPGRADE TO CLASS "A" TDRR 02379	17 JULY 63	
C16	REVISED PER TDRR NO. 03666	15 OCT 63	WK

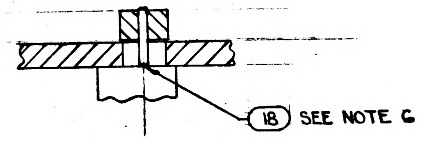






PARTIAL VIEW A-A
SCALE 4:1





PARTIAL VIEW B-B

(B) REPLACES REVISION A WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	1010686	CATALYST	22
AR	1010657	EPOXY RESIN	21
8	1006783-98	SCREW, BUTTON HD	20
8	1010617-2	NUT, HEX SELF-LOCKING	19
1	MS171435	PIN SPRING	18
AR	MIL-S-40083(ORD) CLASS 10	LIQUID LOCK	17
4	1010477-12	SCREW, FLAT HD	16
8	1010618-3	SCREW, BUTTON HD	15
4	1010618-5	SCREW, BUTTON HD	14
1	MS171436	PIN, SPRING	12
1	MS171433	PIN, SPRING	11
2	1010457-2	ACTUATOR, AUXILIARY	10
6	1010435-1	SWITCH, BASIC	9
8	1014653	ACTUATOR SPRING	8
1	1014589	PLATE, MOUNTING	7
4	1014652	STOP BLOCK	6
1	1014644	CAM, ACTUATOR	5
1	1014645	SHAFT, FULCRUM	4
1	1014646	KNOB, SHAFT ACTUATOR	3
1	1014648	ACTUATOR & SHAFT	2
1	1014649	HOUSING	1

LIST OF MATERIALS

(C16) (C10) (C10) (C2) (C10) (C3)

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON 2 PLACE DECIMALS ±.02 DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN JALIMA DATE 16 MAR 63
CHECKED MALIKOWSKI 12 APR 63
APPROVAL MIELENZ 16 APR 63
APPROVAL KODEL 18 APR 63
7/16/63
NASA APPROVAL 8/9/63
MIT APPROVAL L. E. Larson Jr.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SWITCH-
ATTITUDE IMPULSE
ASSY

CODE IDENT NO. SIZE E NASA DRAWING NO. 1014643
SCALE 2:1 WT SHEET 1 OF

1014643 C

MASTER

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1. INTERPERT DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBE BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP CORNERS.

(C5) 3. IDENTIFY USING DRAWING NUMBER AND APPLICABLE DASH NUMBER, REVISION LETTER, AND MANUFACTURERS SYMBOL AND SERIALIZE PER ND1002023.

(C1)

5. SECURE FIND (3) USING FIND (17) PER ND1002211.

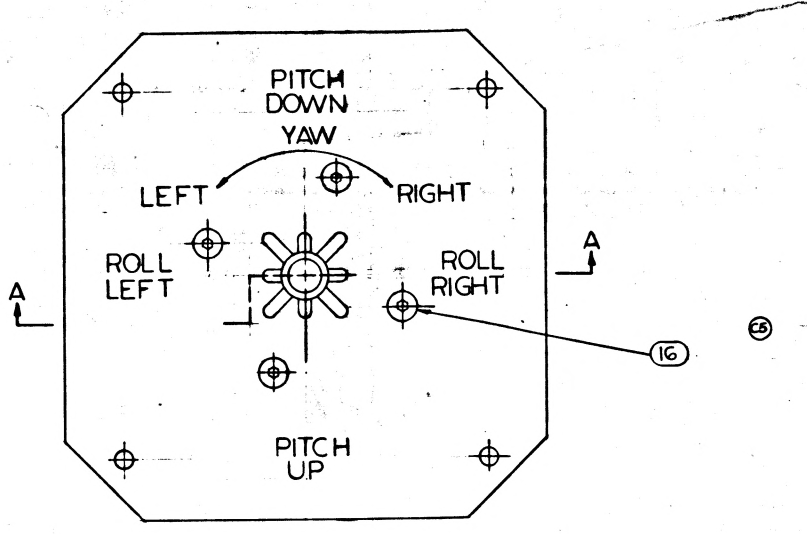
6. FIND (18) TO BE FLUSH WITH FIND (1)

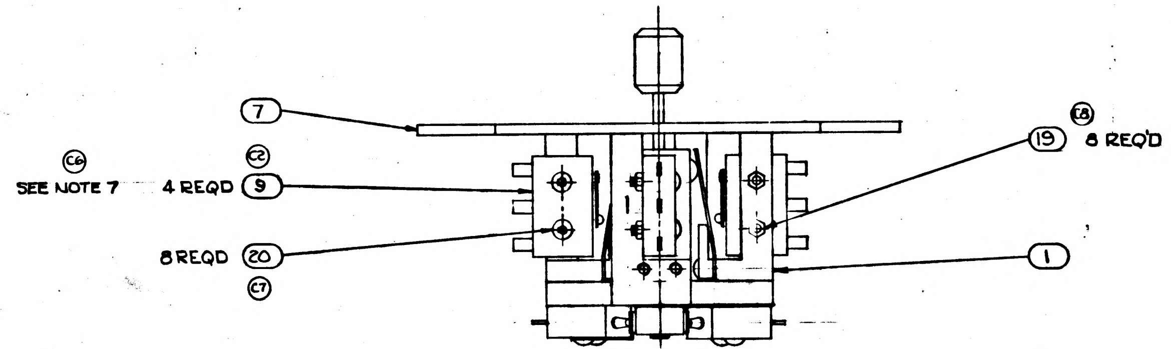
(C12) 7. BOND FIND 9 (4 ONLY) TO FIND 1, USING FIND 21 & 22, PER ND1002004 SEMI-RIGID COMPOSITION.
PROCEDURE:
a. APPLY EPOXY TO INTERFACES OF FIND 9 AND FIND 1.
b. ASSEMBLE USING FIND 19 AND FIND 20, ADJUSTING FIND 9 PER NOTE 8.
c. CURE

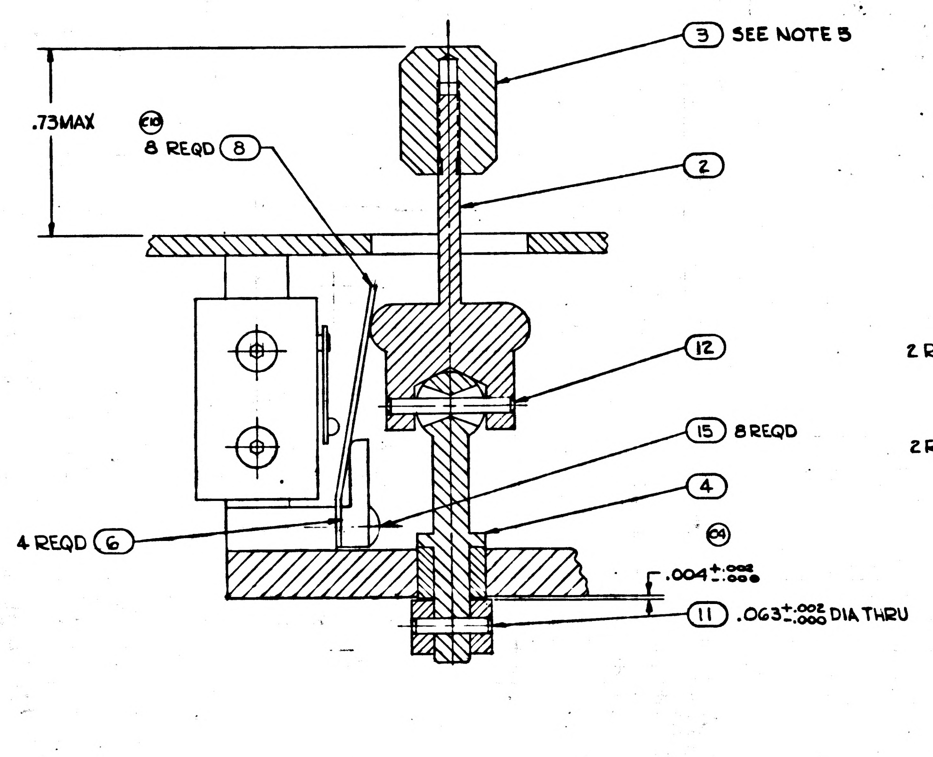
(C13) 8. IN THE FOUR CARDINAL DIRECTIONS, ADJUST FIND 9 SUCH THAT ACTUATION WILL OCCUR WHEN THE SHAFT OF FIND 2 IS .04 FROM THE CLOSED END OF THE SLOT IN FIND 7.

(C14)

REVISIONS				
	SYM	DESCRIPTION	DATE	APPROVAL
(C)	B₁	(B₁) REPLACES REV. A WITH CHANGE - REVISED PARTS LIST & REVISED PICTURE, - & UPGRADE TO CLASS "A" TDRR 02379	17 July 63	
(C)	C₁₆	REVISED PER TDRR NO. 03666	15 OCT 63	WK
	D₄	REVISED PER TDRR NO. 05821	28 JAN 64	WK

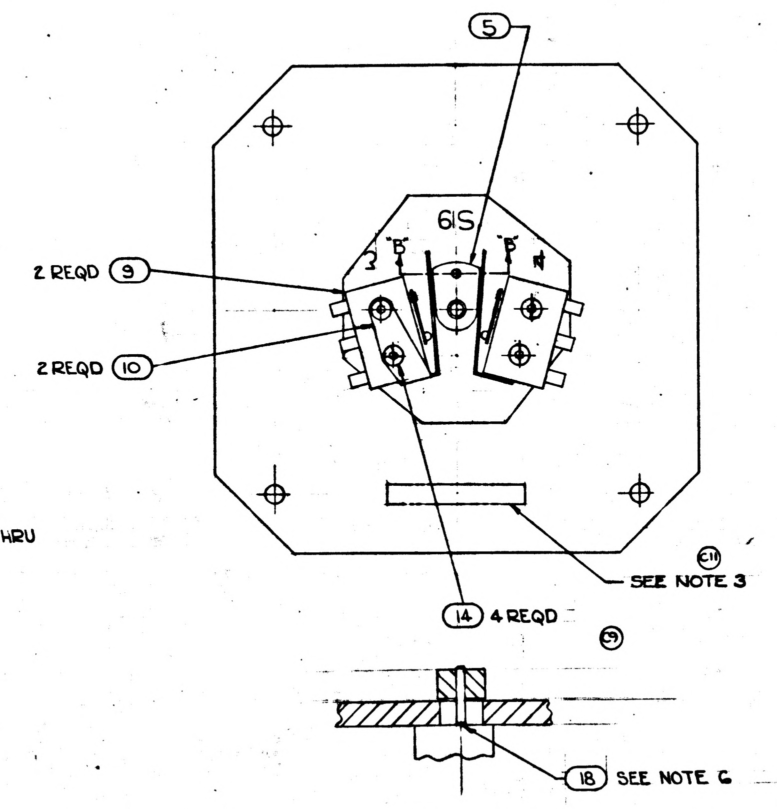






PARTIAL VIEW A-A
SCALE 4:1

(B) REPLACES REVISION A WITH CHANGE



PARTIAL VIEW B-B

(C16)	AR	1010686	CATALYST	22
	AR	1010657	EPOXY RESIN	21
	8	1006783-98	SCREW, BUTTON HD	20
(C10)	8	1010617-2	NUT, HEX. SELF-LOCKING	19
	1	MS171435	PIN SPRING.	18
	AR	MIL-S-40083(ORD) CLASS 10	LIQUID LOCK	17
	4	1010477-12	SCREW, FLAT HD	16
	8	1010618-3	SCREW, BUTTON HD	15
(C10)	4	1010618-5	SCREW, BUTTON HD	14
(C2)				
	1	MS171436	PIN, SPRING	12
	1	MS171433	PIN, SPRING	11
	2	1010457-2	ACTUATOR, AUXILIARY	10
	6	1010435-1	SWITCH, BASIC	9
(C10)	8	1014653	ACTUATOR SPRING	8
	1	1014589	PLATE, MOUNTING	7
	4	1014652	STOP BLOCK	6
	1	1014644	CAM, ACTUATOR	5
	1	1014645	SHAFT, FULCRUM	4
	1	1014646	KNOB, SHAFT ACTUATOR	3
	1	1014648	ACTUATOR & SHAFT	2
	1	1014649	HOUSING	1
	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

(C3)

1014578	1014578
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02 DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN JaLima DATE 15 MAR 63
CHECKED MALLKOWSKI 12 APR 63
APPROVAL MIELENZ 16 APR 63
APPROVAL KODEL 18 APR 63
7/1/63
NASA APPROVAL 8/2/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SWITCH-
ATTITUDE IMPULSE
ASSY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014643
SCALE 2:1
W°
SHEET 1 OF 1

1014643 D

MASTER

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

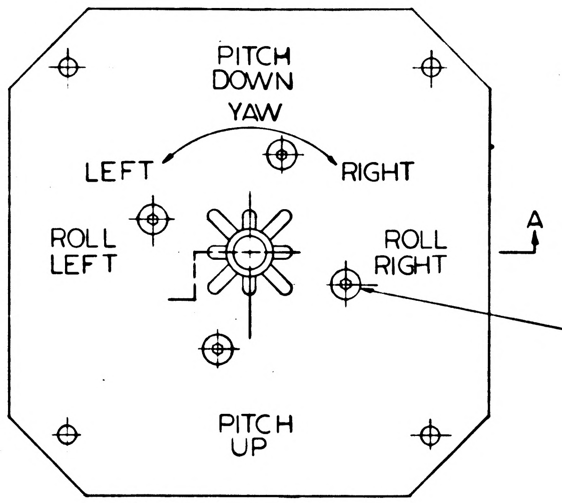
1. INTERPERT DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBE BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP CORNERS.
3. (C15) IDENTIFY USING DRAWING NUMBER AND APPLICABLE DASH NUMBER, REVISION LETTER, AND MANUFACTURERS SYMBOL AND SERIALIZE PER ND1002023.

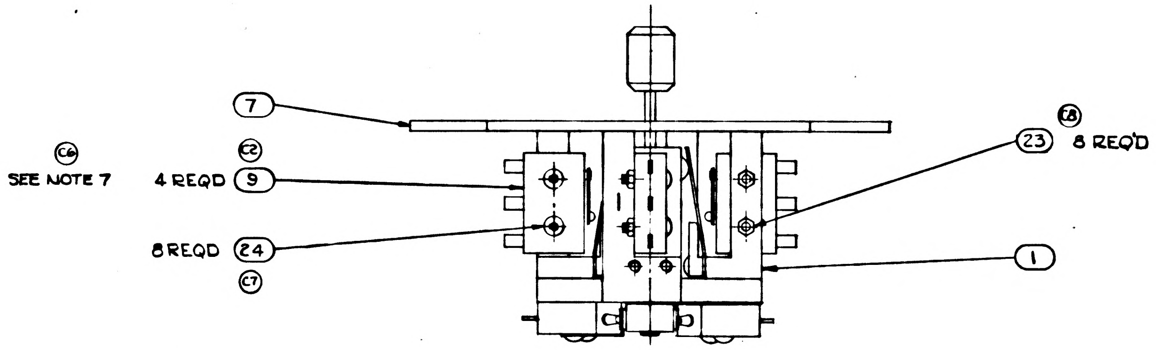
(C1)

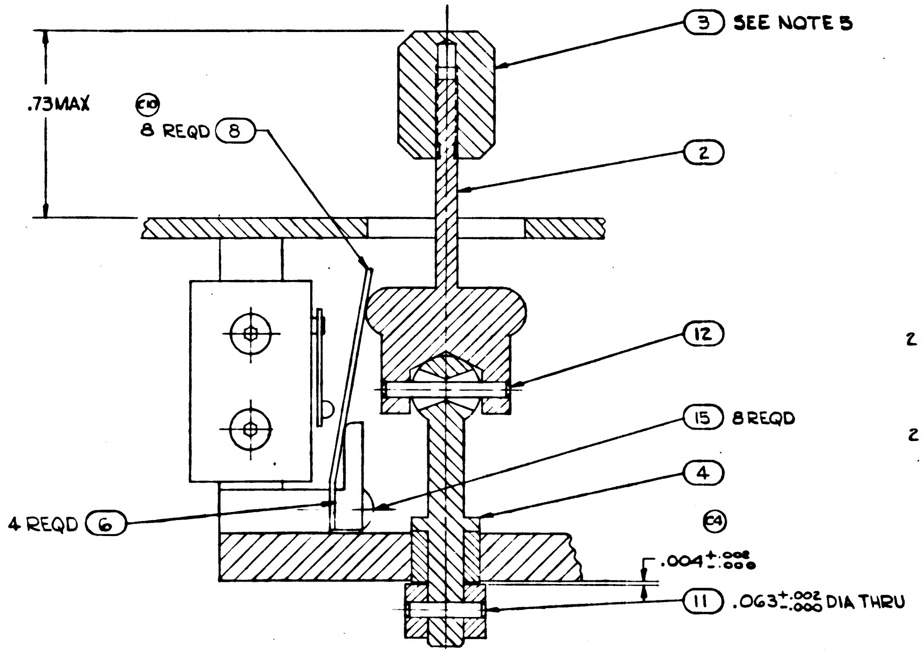
5. SECURE FIND (3) USING FIND (17) PER ND1002211.
6. FIND (18) TO BE FLUSH WITH FIND (1)
7. (C12) BOND FIND 9 (4 ONLY) TO FIND 1, USING FIND 21 & 22, PER ND1002004 SEMI-RIGID COMPOSITION.
   PROCEDURE:
   a. APPLY EPOXY TO INTERFACES OF FIND 9 AND FIND 1.
   b. ASSEMBLE USING FIND 19 AND FIND 20, ADJUSTING FIND 9 PER NOTE 8.
   c. CURE
8. (C13) THE SWITCHES, FIND 9, ARE TO BE ADJUSTED SUCH THAT THE SWITCH OR SWITCHES ASSOCIATED WITH THE DIRECTION OF DEFLECTION OF THE SHAFT, FIND 2, ARE ACTUATED WHEN FIND 2 IS .04 FROM THE CLOSED END OF THE SLOT, IN FIND 7.

(C14)

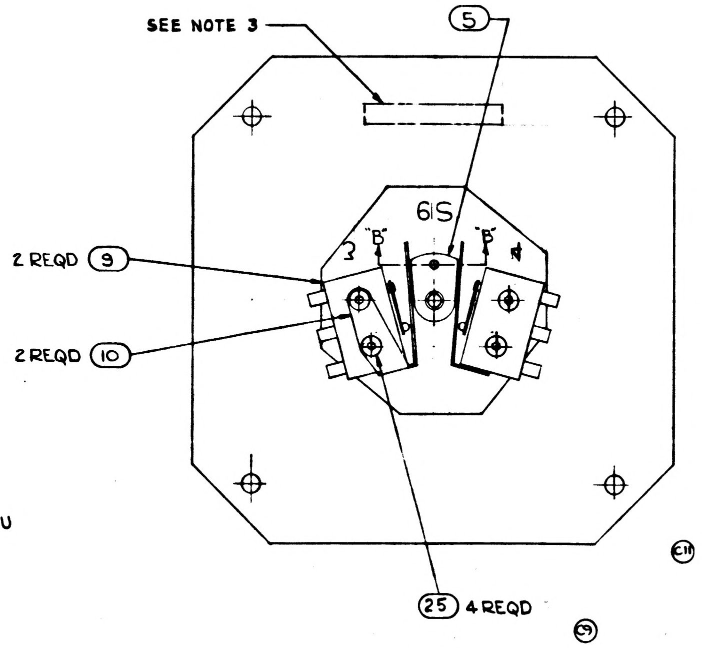
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B₁	(B₁) REPLACES REV. A WITH CHANGE - REVISED PARTS LIST & REVISED PICTURE - & UPGRADE TO CLASS "A" TDRR 02379	7 JULY 63	
C₁₆	REVISED PER TDRR NO. 03666	15 OCT 63	WK
D₄	REVISED PER TDRR NO. 05821	28 JAN 64	WK
E	REVISED PER TDRR 07113	APR 64	SWA
F	REVISED PER TDRR 07117	2 APR 64	SWA

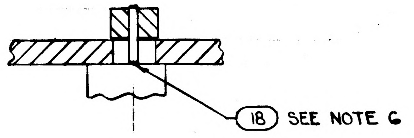






PARTIAL VIEW A-A
SCALE 4:1





PARTIAL VIEW B-B

(B) REPLACES REVISION A WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	NAS1352 C02 LL8	SCREW, SOC. HD. CAP	25
8	1010468-1	SCREW, SOC. HD. CAP	24
8	MS35649-24	NUT, PLAIN, HEX.	23
AR	1010686	CATALYST	22
AR	1010657	EPOXY RESIN	21
~~8~~	~~1006783-90~~	~~SCREW BUTTON HD~~	~~20~~
~~8~~	~~1010617-2~~	~~NUT, HEX SELF-LOCKING~~	~~19~~
1	MS171435	PIN SPRING	18
AR	MIL-S-40083(ORD) CLASS 10	LIQUID LOCK	17
4	1010477-12	SCREW, FLAT HD	16
8	1010618-3	SCREW, BUTTON HD	15
~~4~~	~~1010618-5~~	~~SCREW, BUTTON HD~~	~~14~~
1	MS171436	PIN, SPRING	12
1	MS171433	PIN, SPRING	11
2	1010457-2	ACTUATOR, AUXILIARY	10
6	1010435-1	SWITCH, BASIC	9
8	1014653	ACTUATOR SPRING	8
1	1014589	PLATE, MOUNTING	7
4	1014652	STOP BLOCK	6
1	1014644	CAM, ACTUATOR	5
1	1014645	SHAFT, FULCRUM	4
1	1014646	KNOB, SHAFT ACTUATOR	3
1	1014648	ACTUATOR & SHAFT	2
1	1014649	HOUSING	1

LIST OF MATERIALS

(C16) (C10) (C10) (C2) (C10)

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

(C3)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON 2 PLACE DECIMALS .02 DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT INSTRUMENTATION LAB
Cambridge, Mass
Contract NAS 9-497
DRAWN JALIMA DATE 5 MAR 63
CHECKED MALIKOWSKI 12 APR 63
APPROVAL MIELENZ 16 APR 63
APPROVAL KODEL 18 APR 63
7/1/63
NASA APPROVAL 8/9/63
MIT APPROVAL

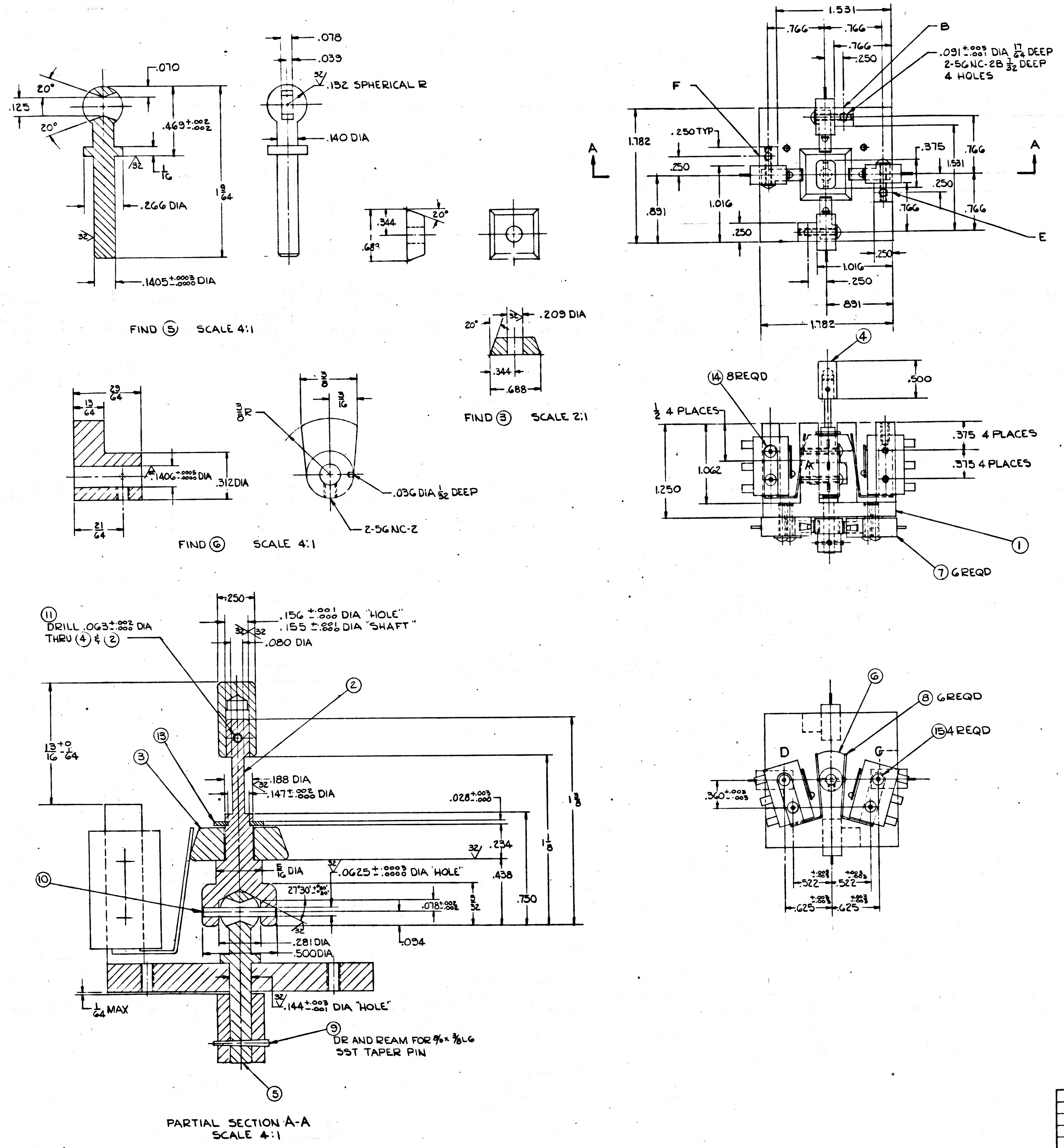
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SWITCH-
ATTITUDE IMPULSE
ASSY

CODE IDENT NO. | SIZE E | NASA DRAWING NO. 1014643
SCALE 2:1 | WT | SHEET 1 OF 1

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL


.070
20°
.125
20°
.469 +.002 −.002
1 9/64
.266 DIA
.1405 +.0003 −.0000 DIA
FIND ⑤ SCALE 4:1
.078
.039
.132 SPHERICAL R
.140 DIA
.344
20°
.68
FIND ③ SCALE 2:1
20°
.209 DIA
.344
.688
13/64
29/64
.1406 +.0003 −.0000 DIA
.312 DIA
21/64
FIND ⑥ SCALE 4:1
3/8
3/16
3/16 R
.036 DIA 1/32 DEEP
2-56NC-2
1.531
.766
.766
.766
.250
B
.091 +.003 −.001 DIA 17/64 DEEP
2-56NC-2B 3/32 DEEP
4 HOLES
F
1.782
.250 TYP
.250
.891
1.016
.250
.375
1.531
.766
.250
.766
.766
E
A
A
.250
1.016
.250
.891
1.782
④
14 8 REQD
1/2 4 PLACES
.500
.375 4 PLACES
.375 4 PLACES
1.062
1.250
①
⑦ 6 REQD
⑥
⑧ 6 REQD
⑮ 4 REQD
D
G
.360 +.003 −.003
.522
.522
.625
.625
.250
⑪
DRILL .063 +.002 −.000 DIA
THRU ④ & ②
.156 +.001 −.000 DIA "HOLE"
.155 +.001 −.000 DIA "SHAFT"
.080 DIA
②
13/16 +0 −1/64
⑬
③
.188 DIA
.147 +.002 −.000 DIA
.028 +.003 −.000
.234
1 3/8
1 1/8
5/16 DIA
.0625 +.0003 −.0000 DIA "HOLE"
.438
⑩
27°30' +0°30' −0°30'
.078 +.002 −.002
.750
.281 DIA
.500 DIA
.094
1/64 MAX
.144 +.003 −.001 DIA "HOLE"
⑨
DR AND REAM FOR 3/0 × 3/8 LG
SST TAPER PIN
⑤

PARTIAL SECTION A-A
SCALE 4:1

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00601 DATE 20 MAR 1963

MARK CHARACTERS 1/8 HIGH PER

FIND NO.	QUAN	PART NO.	DESCRIPTION	MATERIAL	REMARKS
15	4	1000093-5	SCREW BUTTON HD SELF LOCKING SOCKET HD		
14	8	1000093-6	SCREW BUTTON HD SELF LOCKING SOCKET HD		
13	1	MS16633-4018	RING-RETAINING		
12					
11	1	MS171433	PIN-SPRING		
10	1		PIN-STRIAGHT		1/16 DIA x 1/2 LG ACSK PT NO. 8598186-088
9	1		PIN-TAPER		3/0 x 3/8 LG ACSK PT NO. 8599185-012
8	6		ACTUATOR-AUXILIARY		
7	6		SWITCH-BASIC		MICRO SWITCH #1HM1
6	1		CAM	↑ ↑	↑ ↑
5	1		SHAFT		
4	1		PAD		
3	1		ACTUATOR		
2	1		SHAFT & HANDLE	QQ-S-763 CLASS 303 OR 303SE COND A CF	FINISH: MIL-F-14072 (516C) FIN 300
1	1		HOUSING	QQ-A-268 TEMPER T-4	FINISH: MIL-A-8625 TYPE I

LIST OF MATERIALS

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ±.005 ANGLES ±1° DO NOT SCALE THIS DRAWING	M I T INSTRUMENTATION LAB CAMBRIDGE MASS DRAWN Ia Lima DATE 3-16-63 CHECKED APPROVAL 3-18-63 MIT APPROVAL ?	MANNED SPACECRAFT CENTER HOUSTON, TEXAS SWITCH ASSY- ATTITUDE IMPLUSE
APPLICATION		MATERIAL SEE LIST OF MAT'L HEAT TREATMENT FINAL FINISH SEE LIST OF MAT'L	NASA APPROVAL 3/20/63 MIT APPROVAL 20 Mar 63	CODE IDENT NO SIZE E NASA DRAWING NO 1014643 SCALE 2:1 WT SHEET OF

1014643

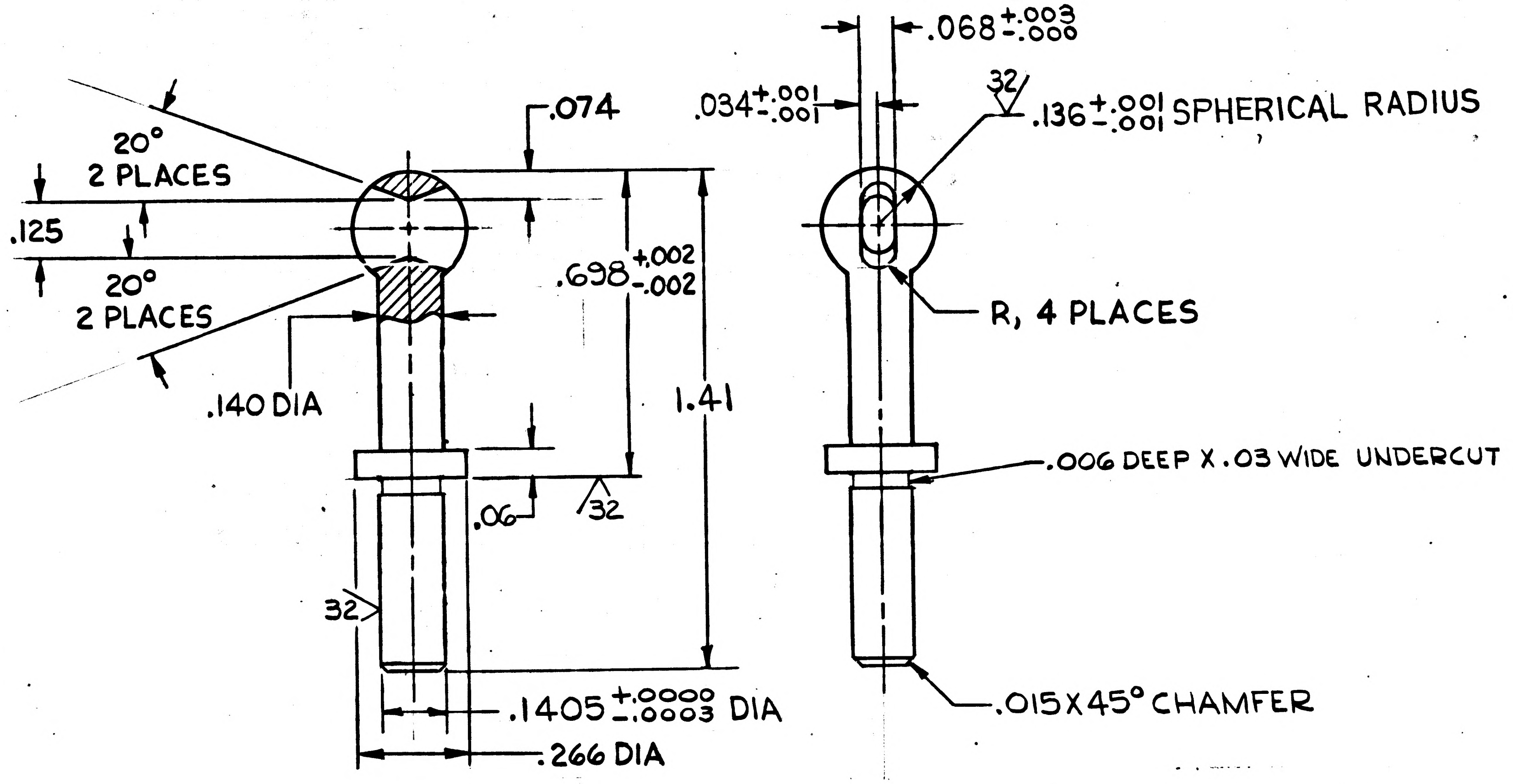
MASTER

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. QQ-S-763, CLASS 303 OR 303 Se COND A, CF (ES-380 SST).
3. FINISH: MIL-F-14072 (SIG C) FINISH E-300 (ES-585 PASSIVATE).
4. UNLESS OTHERWISE SPECIFIED:
   A. SURFACE ROUGHNESS MUST NOT EXCEED 63√.
   B. ALL CORNERS MUST NOT EXCEED .010R, OR CHAMFER.
5. IDENTIFY USING DRAWING NUMBER, REVISION LETTER PER MIL-STD-130 (ES-267).
6. MUST BE FREE FROM BURRS.

REVISIONS TDRR 02364

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS "A" RELEASE		22 JUN 63	ek



20°
2 PLACES
.125
20°
2 PLACES
.074
.140 DIA
.698 +.002 -.002
1.41
.06
32
32
.1405 +.0000 -.0003 DIA
.266 DIA
.068 +.003 -.000
.034 +.001 -.001
32
.136 +.001 -.001 SPHERICAL RADIUS
R, 4 PLACES
.006 DEEP X .03 WIDE UNDERCUT
.015 X 45° CHAMFER

1014643	1014578
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

TWO PLACE DECIMALS	DECIMALS	ANGLES
+.02 -.02	+.005 -.005	+1° -1°

DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. Miller DATE 4-2-63
CHECKED 9 APR 63
APPROVAL D Mielenz 4/16/63
APPROVAL 16 APR 63
7/24/63
NASA APPROVAL Jack Barnard
MIT APPROVAL 31 July 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHAFT, FULCRUM

CODE IDENT NO.
SIZE C
1014645
SCALE 4:1
SHEET 1 OF 1

Charleston 11-4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

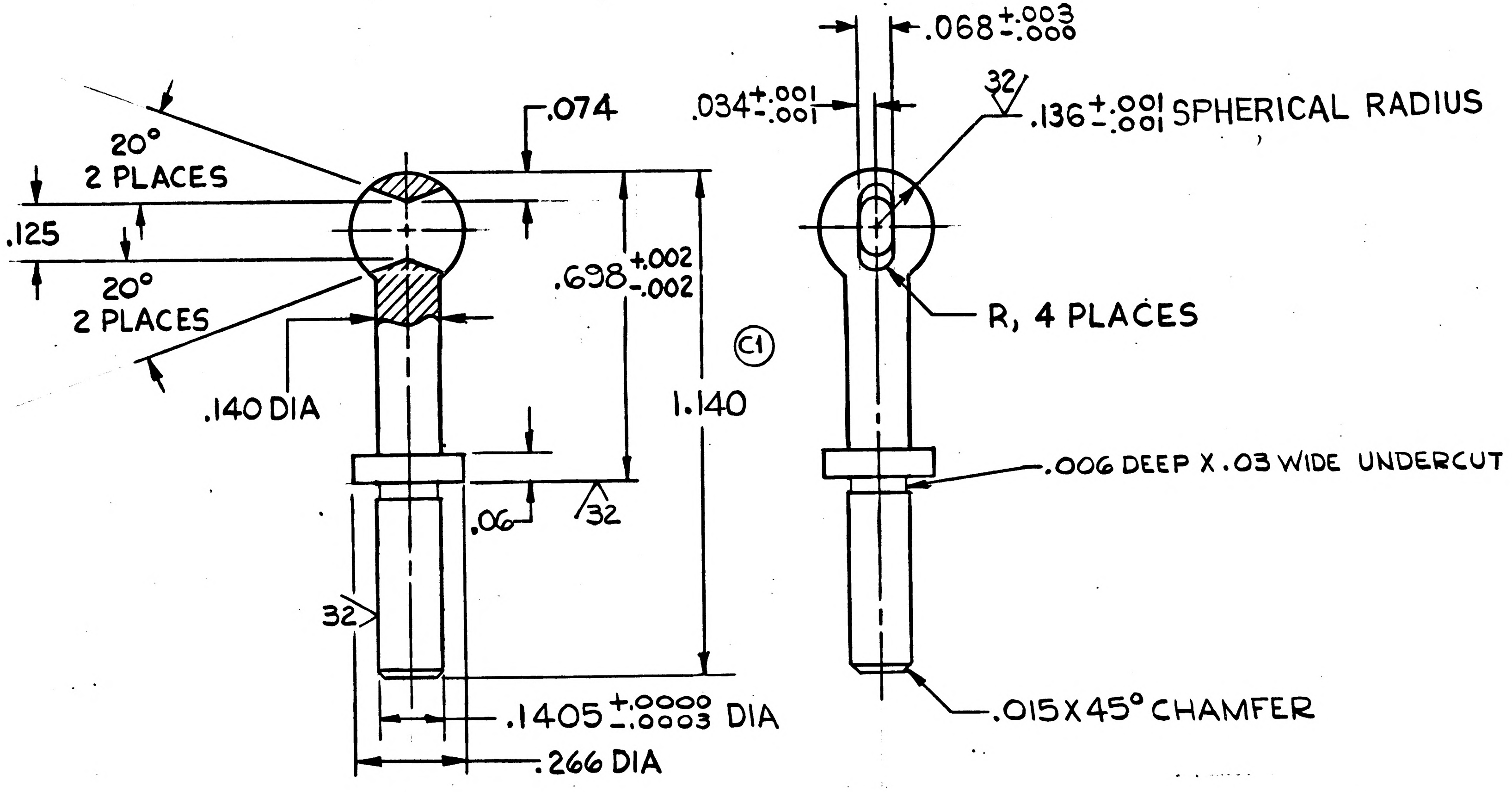
MIL 1077C—F

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. QQ-S-763, CLASS 303 OR 303 Se COND A, CF (ES-380 SST).
3. FINISH: MIL-F-14072 (SIG C) FINISH E-300 (ES-585 PASSIVATE).
4. UNLESS OTHERWISE SPECIFIED:
   A. SURFACE ROUGHNESS MUST NOT EXCEED 63√.
   B. ALL CORNERS MUST NOT EXCEED .010R, OR CHAMFER.
5. IDENTIFY USING DRAWING NUMBER, REVISION LETTER PER MIL-STD-130 (ES-267).
6. MUST BE FREE FROM BURRS.

REVISIONS TDRR 02364

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS "A" RELEASE		22 JUN 63	eeh
C1		REVISED PER TDRR NO. 03195			WK



20° 2 PLACES
.125
20° 2 PLACES
.074
.698 +.002 -.002
1.140
C1
.140 DIA
.06
32
32
.1405 +.0000 -.0003 DIA
.266 DIA
.068 +.003 -.000
.034 +.001 -.001
32
.136 +.001 -.001 SPHERICAL RADIUS
R, 4 PLACES
.006 DEEP X .03 WIDE UNDERCUT
.015 X 45° CHAMFER

1014643 NEXT ASSY	1014578 USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON TWO PLACE DECIMALS +.02 -.02 DECIMALS +.005 -.005 ANGLES +1° -1° DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN E. Miller DATE 4-2-63 CHECKED Mal Kauster 9 APR 63 APPROVAL D Mielenz 4/16/63 APPROVAL A Rodel 16 APR 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS SHAFT, FULCRUM
APPLICATION		MATERIAL SEE NOTE 2 CONTRACT NAS 9-497	7/24/63 NASA APPROVAL Jack Barnard MIT APPROVAL W Kupfer 31 July 63	CODE IDENT NO. SIZE C 1014645 SCALE 4:1 SHEET 1 OF 1

MIL 1077C—P

Charleston 11·4·63

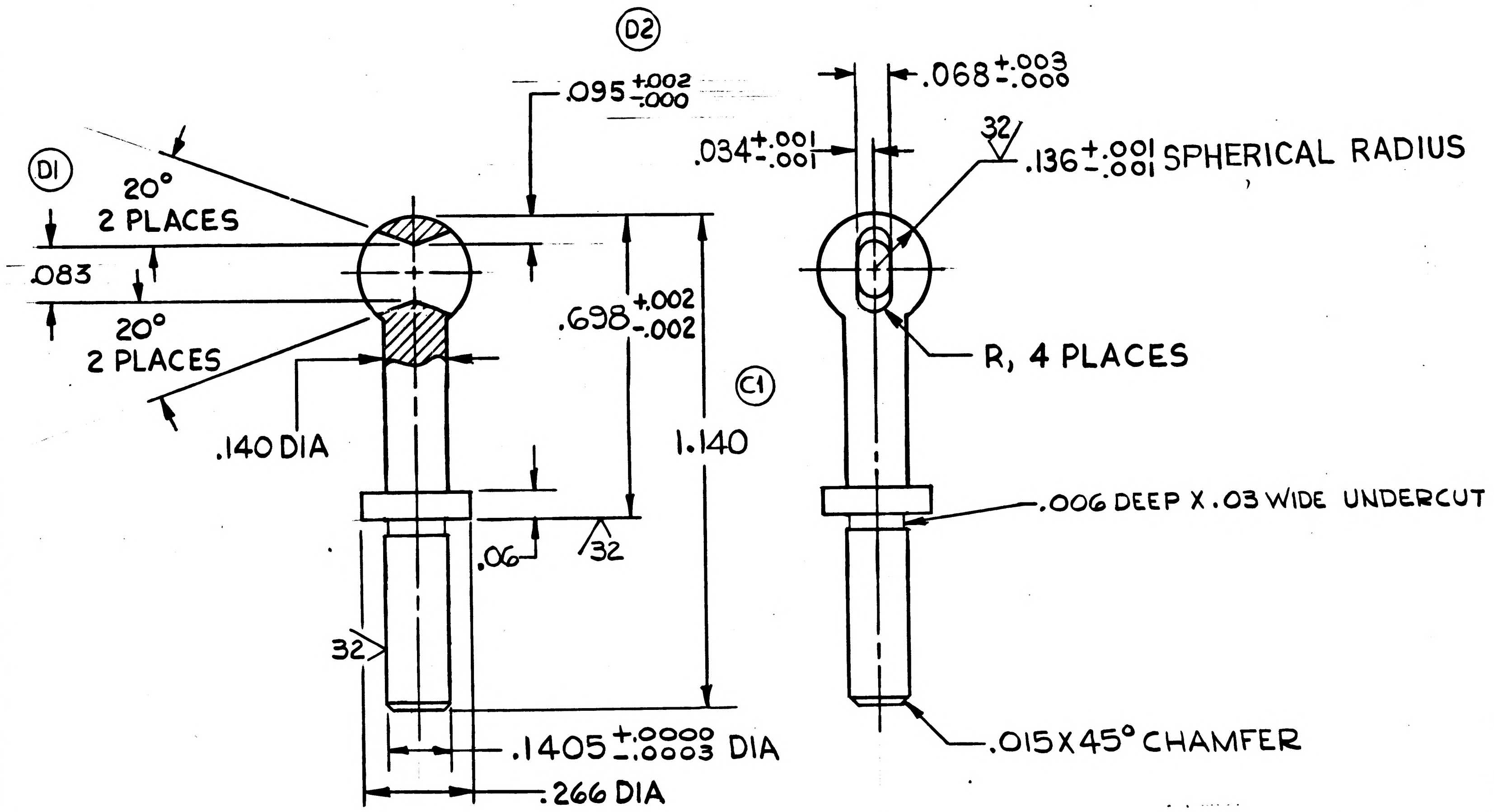
INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. QQ-S-763, CLASS 303 OR 303 Se COND A, CF (ES-380 SST).
3. FINISH: MIL-F-14072 (SIG C) FINISH E-300 (ES-585 PASSIVATE).
4. UNLESS OTHERWISE SPECIFIED:
   A. SURFACE ROUGHNESS MUST NOT EXCEED 63√.
   B. ALL CORNERS MUST NOT EXCEED .010R, OR CHAMFER.
5. IDENTIFY USING DRAWING NUMBER, REVISION LETTER PER MIL-STD-130 (ES-267).
6. MUST BE FREE FROM BURRS.

REVISIONS TDRR 02364

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
Ⓜ B		UPGRADED FOR CLASS "A" RELEASE		22 JUN 63	eeh
Ⓜ C1		REVISED PER TDRR NO. 03195			WK
D2		REVISED PER TDRR NO. 03662		11 OCT 63	WK



D2
.095 +.002 -.000
D1
20° 2 PLACES
.083
20° 2 PLACES
.698 +.002 -.002
C1
1.140
.140 DIA
.06
32
32
.1405 +.0000 -.0003 DIA
.266 DIA
.068 +.003 -.000
.034 +.001 -.001
32
.136 +.001 -.001 SPHERICAL RADIUS
R, 4 PLACES
.006 DEEP X .03 WIDE UNDERCUT
.015 X 45° CHAMFER

1014643	1014578
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

TWO PLACE DECIMALS	DECIMALS	ANGLES
+.02	+.005	+1°
-.02	-.005	-1°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN E. Miller DATE 4-2-63
CHECKED Mark Kaerster 9 APR 63
APPROVAL D Mielenz 4/16/63
APPROVAL A Kodel 16 APR 63
J Klein 7/24/63
NASA APPROVAL Jack Barnard
MIT APPROVAL W Kupfer 31 July 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHAFT, FULCRUM

CODE IDENT NO.
SIZE C
1014645
SCALE 4:1
SHEET 1 OF 1

MIL 1077C—P

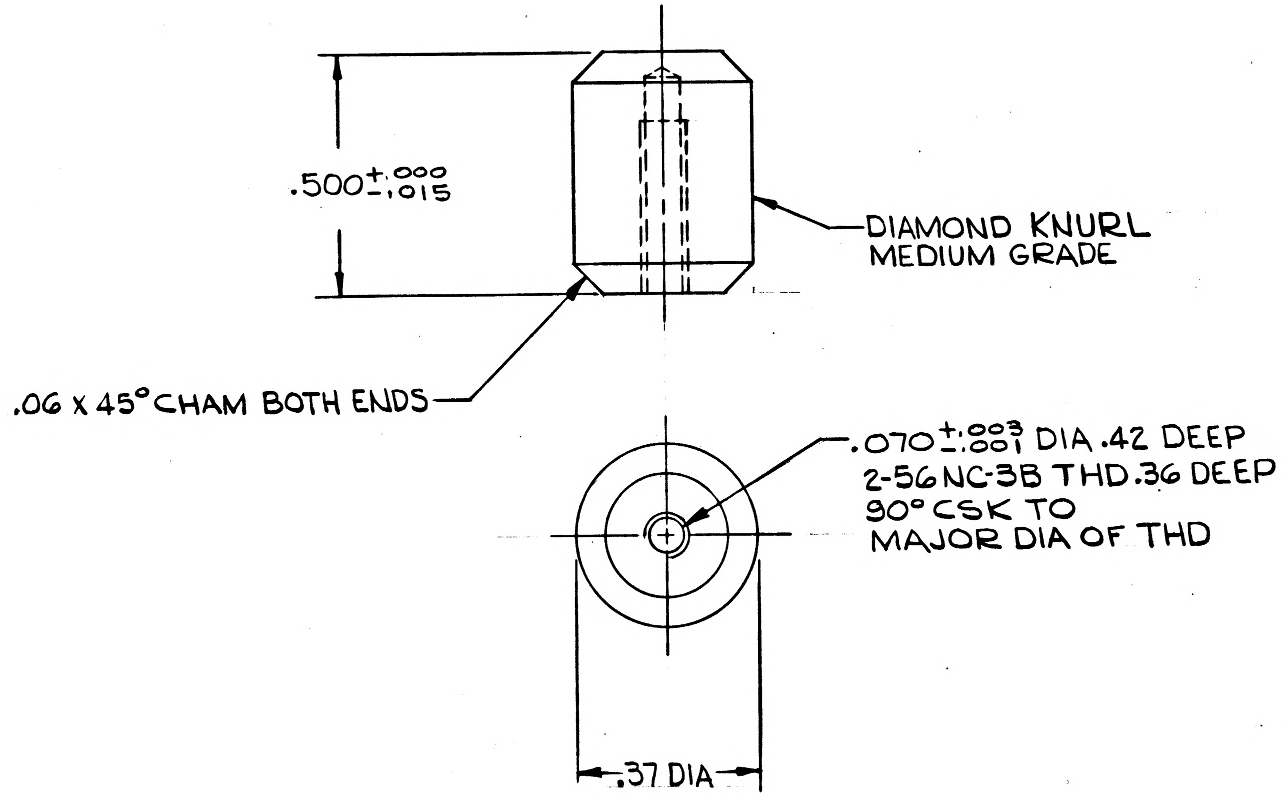
Charleston · 11·4·63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-A-268, AL. ALY, 2024 TEMPER T-4 (ES-2104)
3. FINISH: ANODIZE IN ACCORDANCE WITH MIL-A-8625, TYPE I (ES-385).
4. UNLESS OTHERWISE SPECIFIED:
   A. SURFACE ROUGHNESS MUST NOT EXCEED $\overset{63}{\surd}$.
   B. ALL CORNERS MUST NOT EXCEED .010 R. OR CHAMFER.
5. MUST BE FREE FROM BURRS.
6. IDENTIFY USING DRAWING NUMBER, REVISION LETTER PER MIL-STD-130 (ES-267).

REVISIONS

SYM	ZONE	DESCRIPTION TDRR02364	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE 02364		22 JUN 63	rrh / wk



.500 +.000 −.015
DIAMOND KNURL MEDIUM GRADE
.06 X 45° CHAM BOTH ENDS
.070 +.003 −.001 DIA .42 DEEP
2-56 NC-3B THD .36 DEEP
90° CSK TO
MAJOR DIA OF THD
.37 DIA

1014643	1014578
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	+ .02	+ 1°
− —	− .02	− 1°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2.

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN BENDER DATE 4-APR-63
CHECKED Malikowski 9 APR 63
APPROVAL D. Mieleng 4/16/63
APPROVAL A.Kodel 16 APR 63
J. O'Kerin 7/26/63
NASA APPROVAL Jack Barnard
MIT APPROVAL W.Kupfer 31 July 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

KNOB, SHAFT,
ACTUATOR

CODE IDENT NO.
SIZE C
1014646
SCALE 4:1
SHEET 1 OF 1

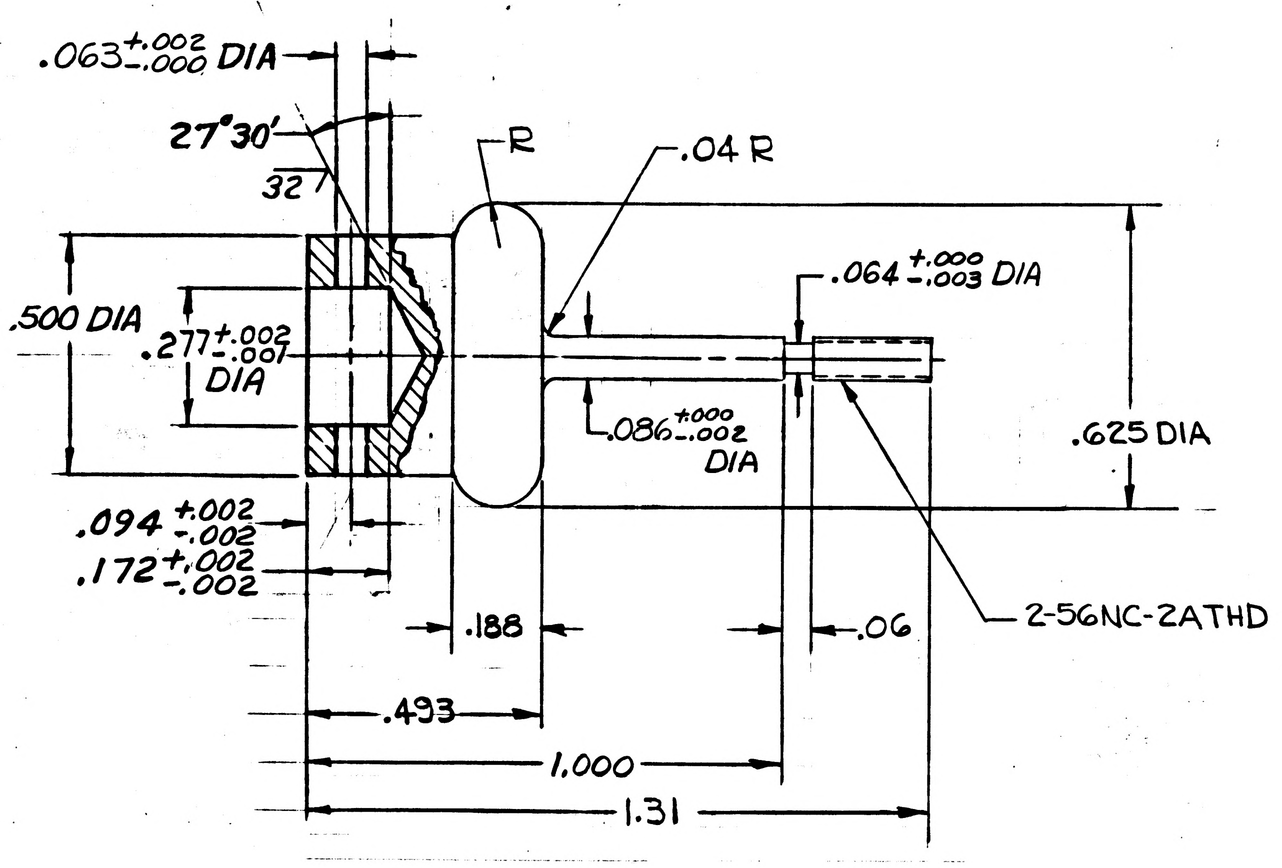
Charleston 11-4-63

MIL 1077C—P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS TDRR 02364					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE		22 JUN 63	rrh

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. QQ-S-763, CLASS 303 OR 303 SE COND A, CF (ES-380 SST).
3. FINISH: MIL-F-14072 (SIG C) FINISH 300 (ES-585 PASSIVATE).
4. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS MUST NOT EXCEED .010R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED 63√.
5. MUST BE FREE FROM BURRS.
6. IDENTIFY USING DRAWING NUMBER, REVISION LETTER PER MIL-STD-130 (ES-267).
7. .063 DIA. AND .277 DIA. COPLANAR WITHIN .0025.



$.063^{+.002}_{-.000}$ DIA
27°30'
32
R
.04 R
$.064^{+.000}_{-.003}$ DIA
.500 DIA
$.277^{+.002}_{-.001}$ DIA
$.086^{+.000}_{-.002}$ DIA
.625 DIA
$.094^{+.002}_{-.002}$
$.172^{+.002}_{-.002}$
.188
.06
2-56NC-2ATHD
.493
1.000
1.31

1014643 NEXT ASSY	1014578 USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS $\pm .02$ DECIMALS $\pm .005$ ANGLES $\pm 1°$ DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN R.L.Olson DATE 4-3-63 CHECKED Mali Kaustin 9 APR 63 APPROVAL D Mieling 4/16/63 APPROVAL A.Kodel 16 APR 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS ACTUATOR & SHAFT
APPLICATION		MATERIAL SEE NOTE 2 CONTRACT NAS 9-497	7/26/63 NASA APPROVAL Jack Barnard MIT APPROVAL W Kupfer 3 July 63	CODE IDENT NO. SIZE C 1014648 SCALE 4:1 SHEET 1 OF 1

Charleston - 11-4-63

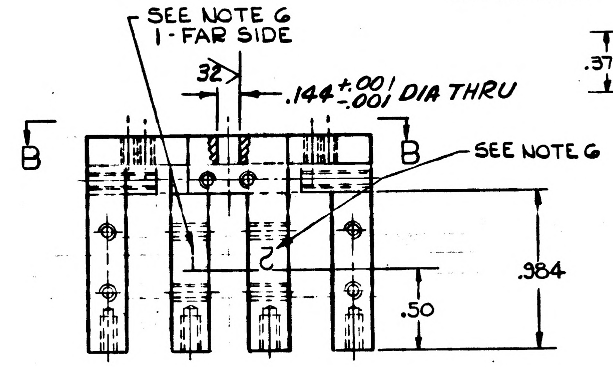
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

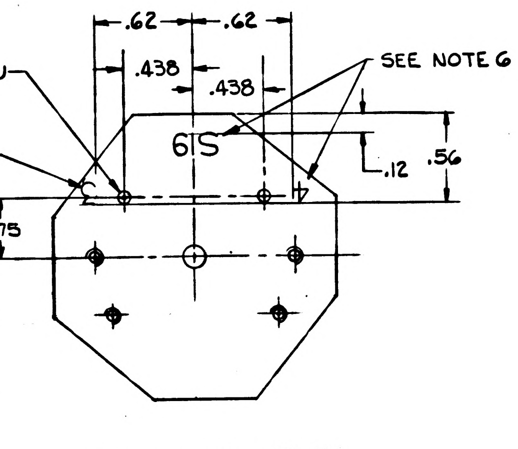
MIL 1077C—P

A 1014649 2

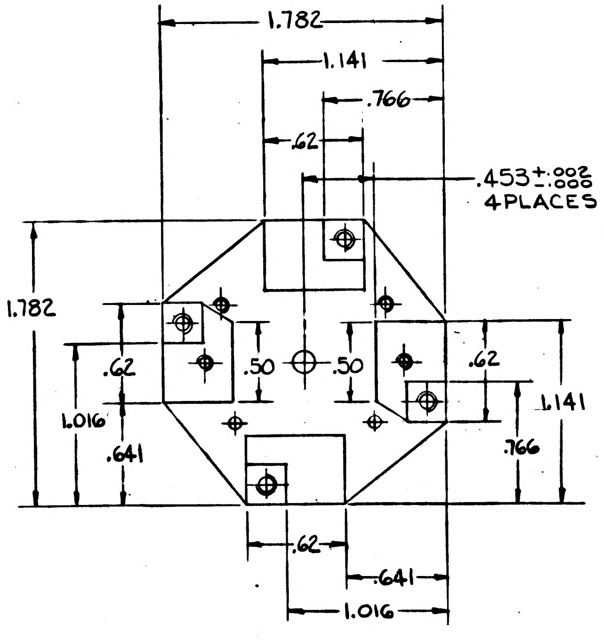
REVISIONS TDRR 02364					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		22 JUN 63	

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS AS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-A-268, AL ALY, 2024, TEMPER T-4 (ES-2104).
3. FINISH: ANODIZE IN ACCORDANCE WITH MIL-A-8625, TYPE I (ES-385).
4. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS MUST NOT EXCEED .010 R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED 63√.
5. MUST BE FREE FROM BURRS.
6. MARK CHARACTERS PER ND1002019 .09 HIGH, COLOR BLACK, USING RUBBER STAMP, STENCIL, OR SILK SCREEN.
7. IDENTIFY USING DRAWING ~~NUMBER~~, REVISION LETTER PER MIL-STD-130 (ES-267).

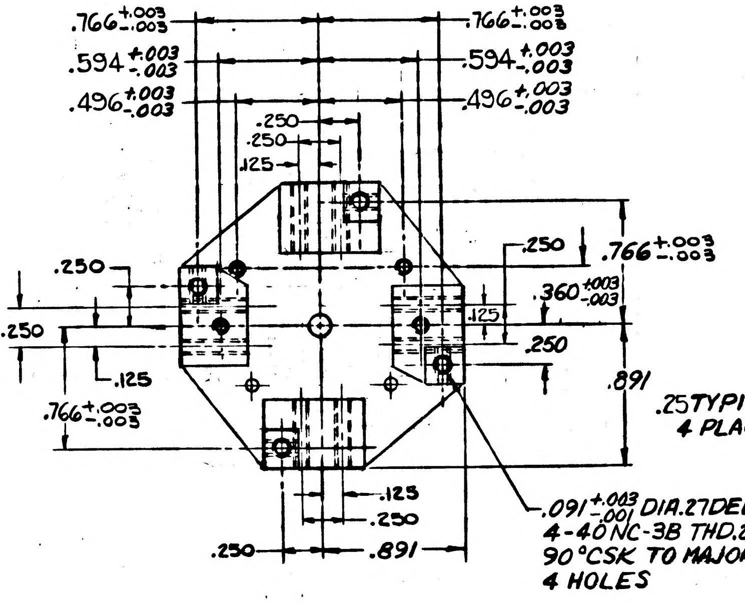

SEE NOTE 6
1-FAR SIDE
32
.144 +.001 -.001 DIA THRU
B
B
SEE NOTE 6
S
.984
.50

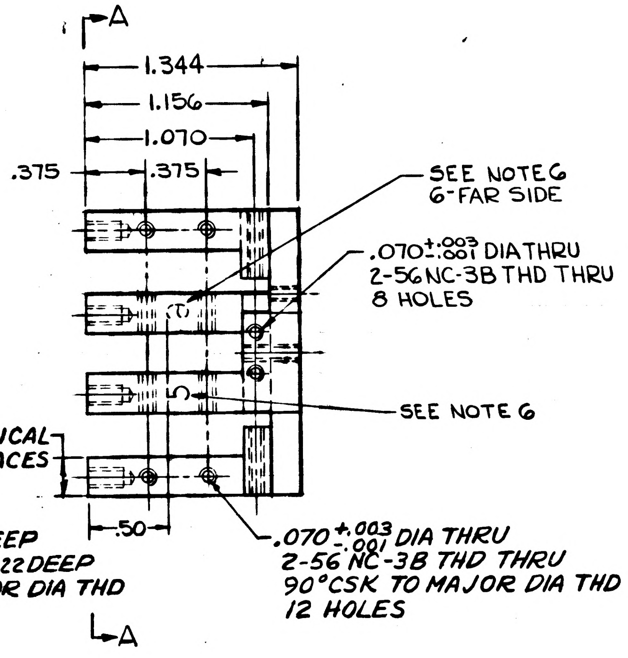

.62
.62
.438
.438
.063 +.002 -.001 DIA THRU
SEE NOTE 6
SEE NOTE 6
61S
.12
.56
.375

PARTIAL VIEW B-B


1.782
1.141
.766
.62
.453 +.002 -.000
4 PLACES
1.782
.62
1.016
.641
.50
.50
.62
1.141
.766
.62
.641
1.016

PARTIAL VIEW A-A


.766 +.003 -.003
.594 +.003 -.003
.496 +.003 -.003
.766 +.003 -.003
.594 +.003 -.003
.496 +.003 -.003
.250
.250
.125
.250
.250
.766 +.003 -.003
.360 +.003 -.003
.125
.250
.250
.125
.891
.766 +.003 -.003
.125
.250
.250
.891
.091 +.003 -.001 DIA .27 DEEP
4-40 NC-3B THD .22 DEEP
90°CSK TO MAJOR DIA THD
4 HOLES


A
1.344
1.156
1.070
.375
.375
SEE NOTE 6
6-FAR SIDE
.070 +.003 -.001 DIA THRU
2-56 NC-3B THD THRU
8 HOLES
SEE NOTE 6
.25 TYPICAL
4 PLACES
.50
.070 +.003 -.001 DIA THRU
2-56 NC-3B THD THRU
90°CSK TO MAJOR DIA THD
12 HOLES
A

1014643 NEXT ASSY	1014578 USED ON	MATERIAL SEE NOTE 2	NASA APPROVAL Jack Barnard	CODE IDENT NO.
APPLICATION		CONTRACT NAS 9-497	MIT APPROVAL	SCALE 2:1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS +.02 -.02
DECIMALS +.005 -.005
ANGLES +1° -1°
DO NOT SCALE THIS DRAWING

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R Olson DATE 4-2-63
CHECKED 5-APR-63
APPROVAL D Mieleny 4/16/63
APPROVAL 16 APR 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING

SIZE D
1014649
SHEET 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

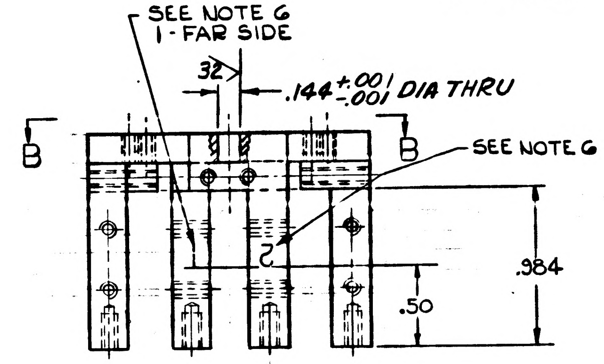
MIL 10770-F

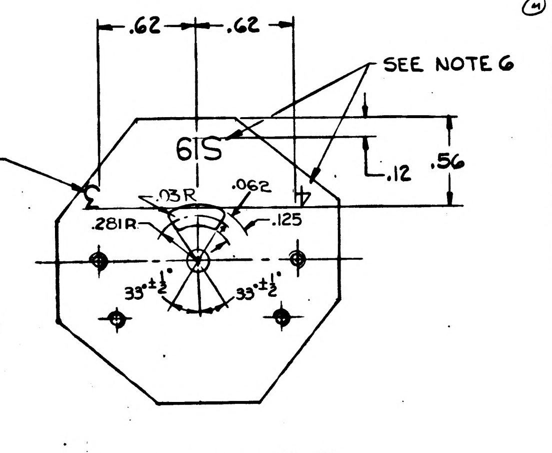
B 1014649

REVISIONS TDRR 02364

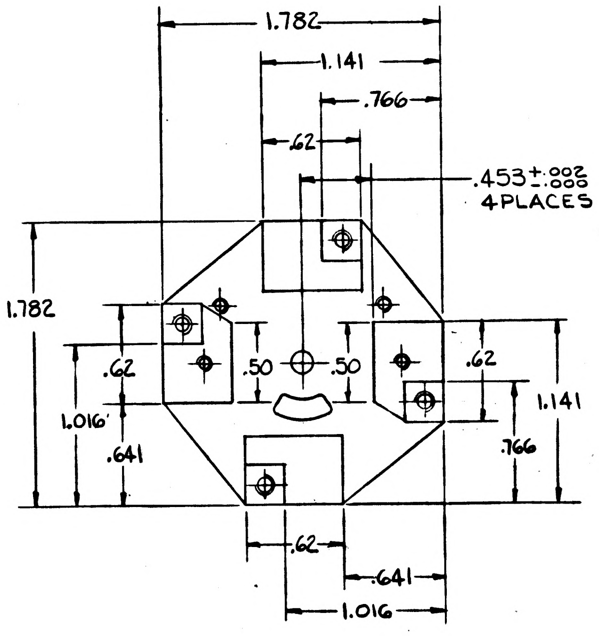
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		22 JUN 63	
B		REMOVED (2) .063 $^{+.002}_{-.001}$ DIA. HOLES ADDED .125 SLOT ON .281 R. TDRR 02378			WK 9/6/63

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS AS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-A-268, AL ALY, 2024, TEMPER T-4 (ES-2104).
3. FINISH: ANODIZE IN ACCORDANCE WITH MIL-A-8625, TYPE I (ES-385).
4. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS MUST NOT EXCEED .010R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED 63√.
5. MUST BE FREE FROM BURRS.
6. MARK CHARACTERS PER ND1002019 .09 HIGH, COLOR BLACK, USING RUBBER STAMP, STENCIL, OR SILK SCREEN.
7. IDENTIFY USING DRAWING NUMBER, REVISION LETTER PER MIL-STD-130 (ES-267).

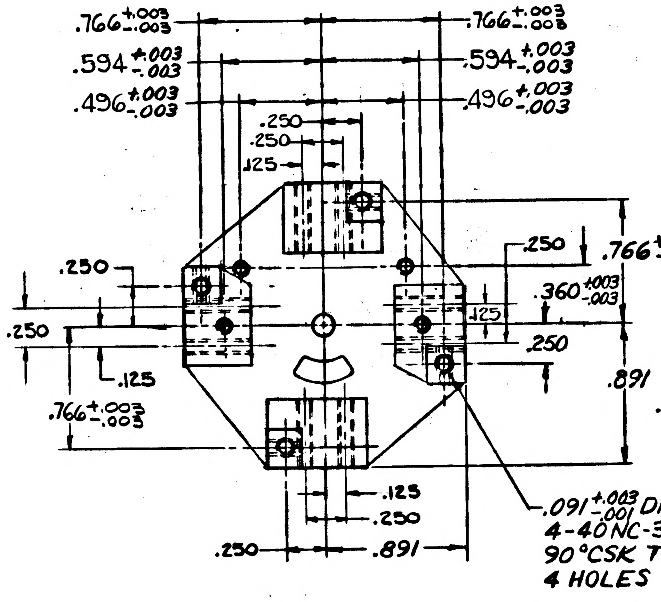

SEE NOTE 6
1-FAR SIDE
32
.144 +.001 -.001 DIA THRU
B
B
SEE NOTE 6
.984
.50

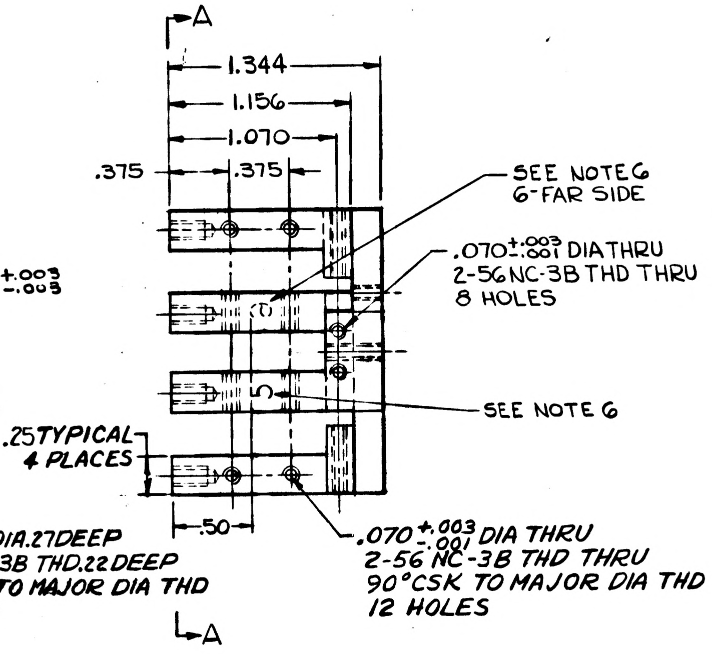

.62
.62
SEE NOTE 6
SEE NOTE 6
61S
.12
.56
.03R
.062
.281R
.125
33°±½°
33°±½°

PARTIAL VIEW B-B


1.782
1.141
.766
.62
.453 +.002 -.000 4 PLACES
1.782
.62
.50
.50
.62
1.016
.641
1.141
.766
.62
.641
1.016

PARTIAL VIEW A-A


.766 +.003 -.003
.594 +.003 -.003
.496 +.003 -.003
.766 +.003 -.003
.594 +.003 -.003
.496 +.003 -.003
.250
.250
.125
.250
.250
.125
.766 +.003 -.003
.250
.766 +.003 -.003
.360 +.003 -.003
.125
.250
.891
.125
.250
.250
.891
.091 +.003 -.001 DIA .27 DEEP
4-40 NC-3B THD .22 DEEP
90°CSK TO MAJOR DIA THD
4 HOLES


A
1.344
1.156
1.070
.375
.375
SEE NOTE 6
6-FAR SIDE
.070 +.003 -.001 DIA THRU
2-56 NC-3B THD THRU
8 HOLES
SEE NOTE 6
.25 TYPICAL
4 PLACES
.50
.070 +.003 -.001 DIA THRU
2-56 NC-3B THD THRU
90°CSK TO MAJOR DIA THD
12 HOLES
A

1014643 NEXT ASSY	1014578 USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS +.02 −.02 DECIMALS +.005 −.005 ANGLES +1° −1°	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN R Olson DATE 4-2-63 CHECKED 5-APR-63 APPROVAL D Mielenz 4/16/63 APPROVAL 16 APR 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS HOUSING
APPLICATION		DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 2 CONTRACT NAS 9-497	NASA APPROVAL MIT APPROVAL	CODE IDENT NO. SIZE D 1014649 SCALE 2:1 SHEET

3 Charleston 11-4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

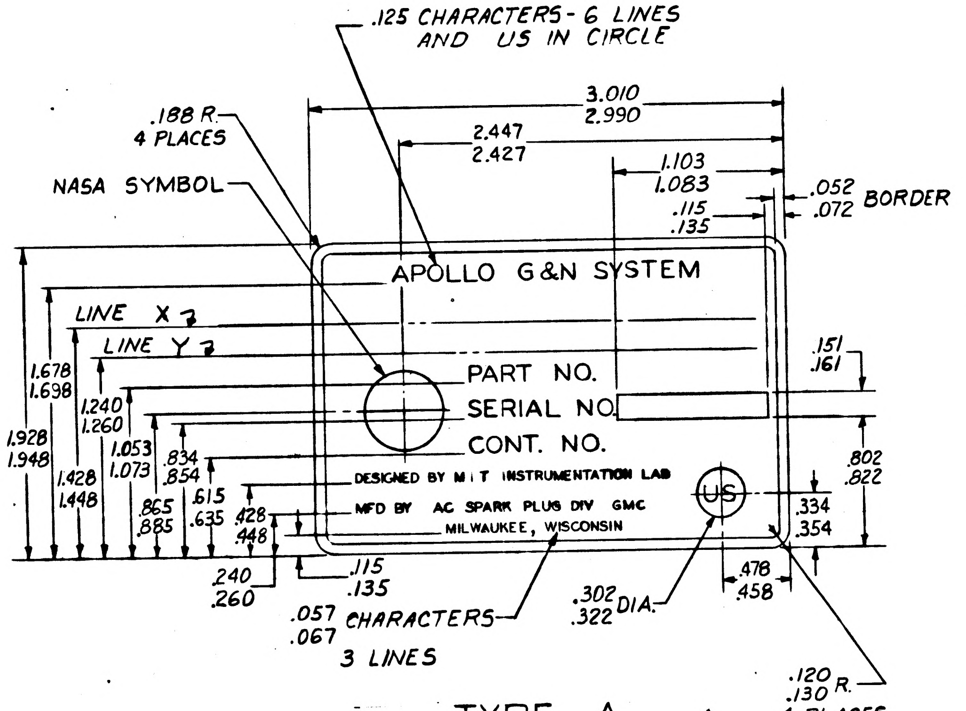
1014650 A

REVISIONS TURR 04798

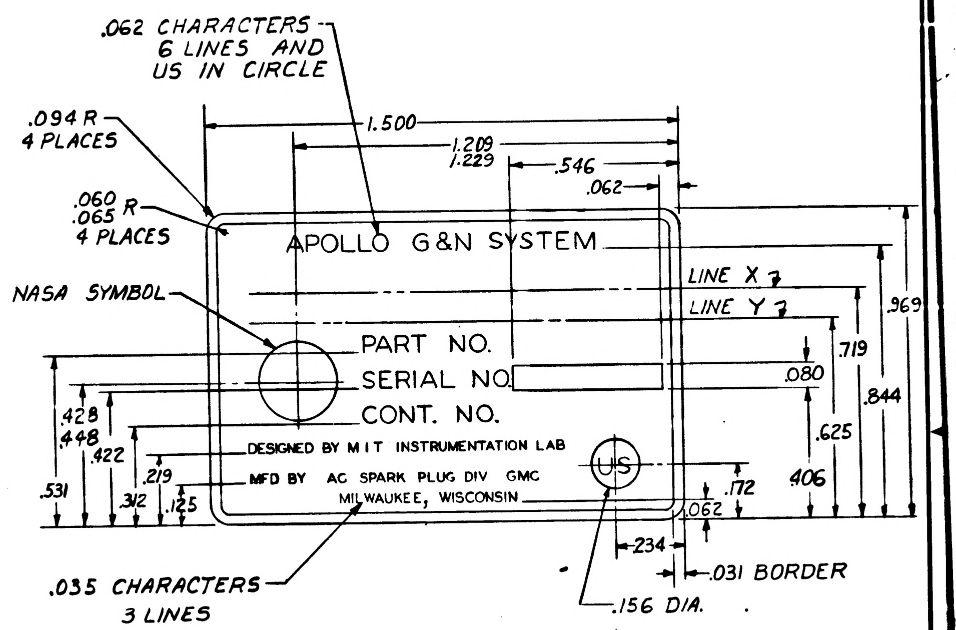
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		REDRAW AND REVISED AS FOLLOW: ADDED -7, & TITLE OF -3 WAS, "OPTICS SHROUD AND COVER ASSEMBLY" UP GRADED FOR CLASS A RELEASE.	D.O. 55373	14 NOV. 63	JHH

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 ON BACK OF PLATE.
6. SEE SHEET 2 & 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120/.130 HIGH FOR TYPE "A" AND .057/.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231


.125 CHARACTERS - 6 LINES AND US IN CIRCLE
.188 R. 4 PLACES
NASA SYMBOL
3.010
2.990
2.447
2.427
1.103
1.083
.115
.135
.052
.072 BORDER
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.151
.161
1.678
1.698
1.240
1.260
1.928
1.948
1.053
1.073
.834
.854
1.428
1.448
.865
.885
.615
.635
.428
.448
.802
.822
.334
.354
.240
.260
.115
.135
.057
.067 CHARACTERS 3 LINES
.302
.322 DIA.
.478
.458
.120
.130 R. 4 PLACES

TYPE A
2 x SIZE


.062 CHARACTERS 6 LINES AND US IN CIRCLE
.094 R 4 PLACES
.060
.065 R 4 PLACES
NASA SYMBOL
1.500
1.209
1.229
.546
.062
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.969
.719
.844
.080
.625
.406
.428
.448
.422
.531
.219
.312
.125
.172
.062
.234
.031 BORDER
.035 CHARACTERS 3 LINES
.156 DIA.

TYPE B
4 x SIZE

DRAWING NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-7	A	OPTICS COVER ASS'Y.	X	1014532		NAS 9-497
1014650-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		NAS 9-497
1014650-5	B	D&C ELECTRONICS ASSY.	X	1007059		NAS 9-497
1014650-4	B	CDU ASSEMBLY	X	1015500-011		NAS 9-497
1014650-3	A	OPTICS SHROUD ASSY	X	1014502		NAS 9-497
1014650-2	B	IMU CONTROL PANEL ASSY.	X	1014526-011		NAS 9-497
1014650-1	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

NEXT ASSY	USED ON
1014532	1014513
1014606	1014606
1007059	↑
1015500-011	
1014502	
1014526-011	
1014578-011	1014513

APPLICATION

A	A	A
SHEET 1	SHEET 2	SHEET 3

REVISION STATUS OF SHEETS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ -	±.02	+ -
- -	±.005	- -

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. Piazza 29 OCT 63
APPROVAL D.W. Marling 29 OCT 63
APPROVAL 29 Oct 63
NASA APPROVAL
MIT APPROVAL 11/20/63

Charleston 29 oct 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO. SIZE D 1014650

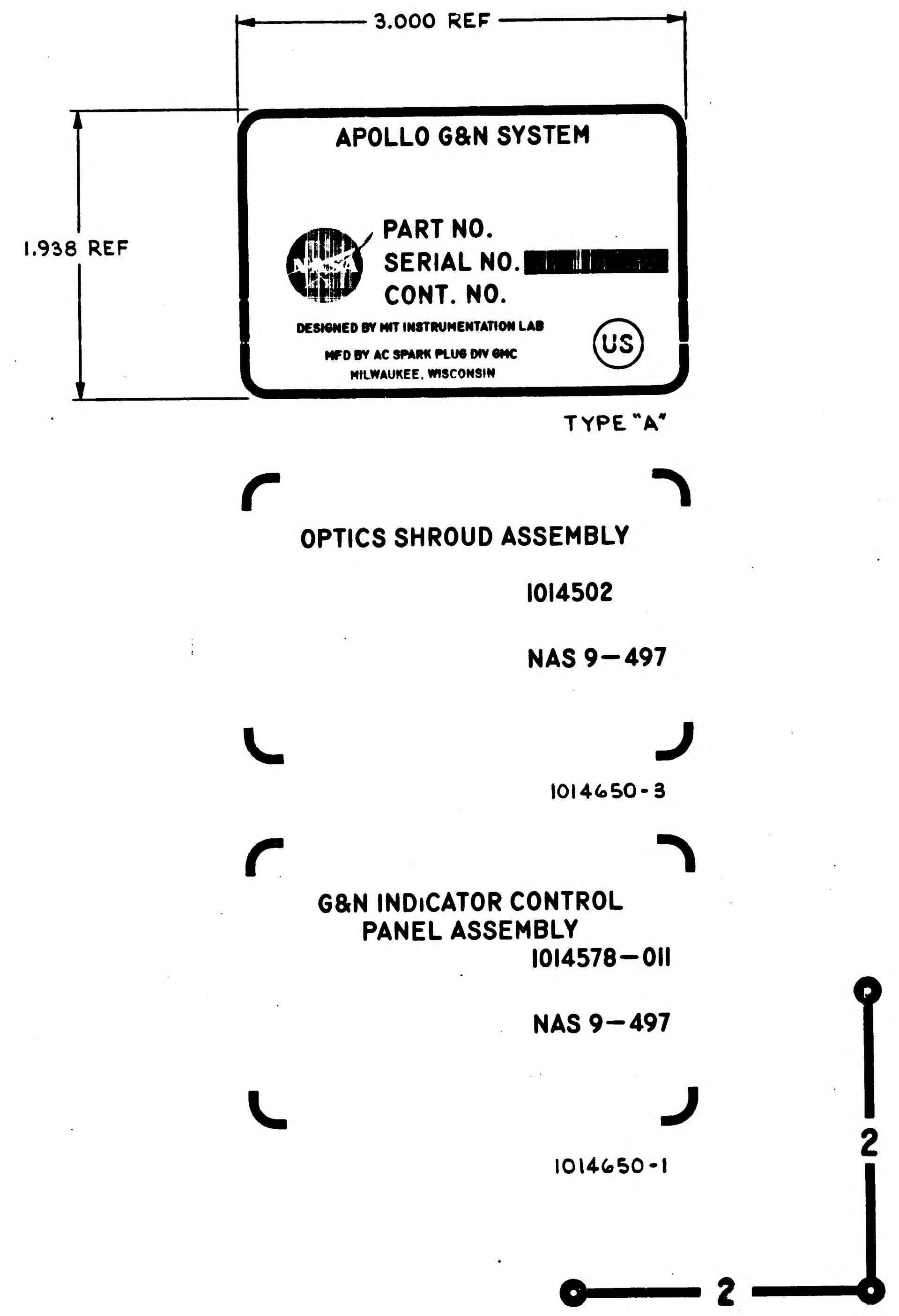
SCALE 2 & 4 X SHEET 1 OF 3

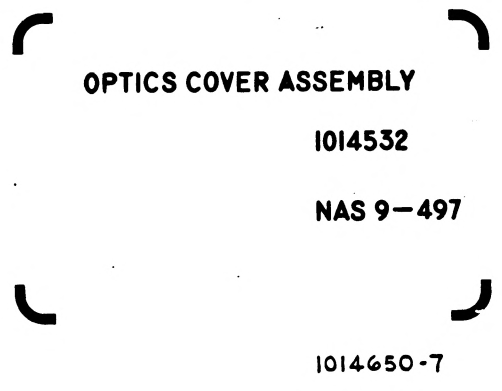
INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

MIL 10770-F

1014650 A

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
REVISIONS TORR 04798					
A		SEE SHEET 1 FOR REVISION STATUS		4 NOV. 63	


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE "A"
OPTICS SHROUD ASSEMBLY
1014502
NAS 9—497
1014650-3
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578—011
NAS 9—497
1014650-1
2
2


OPTICS COVER ASSEMBLY
1014532
NAS 9—497
1014650-7

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — − — DECIMALS + — − — ANGLES + — − —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN JOHN HEITKEMPER DATE 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL D. W. MELENZ 29 OCT 63
APPROVAL A. J. KODEL 29 OCT 63
NASA APPROVAL
MIT APPROVAL 11/21/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

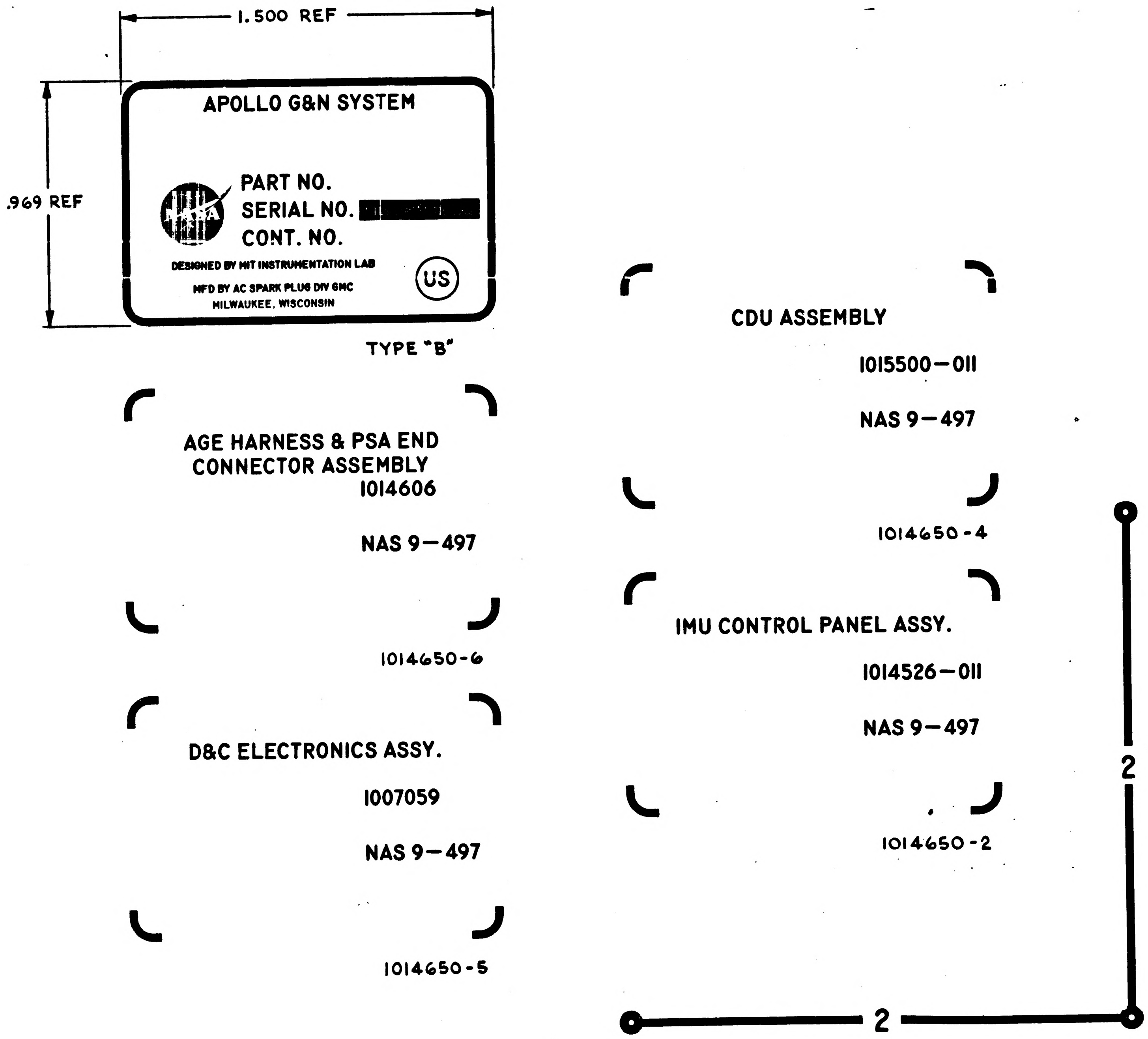
PLATE, IDENTIFICATION
PHOTOGRAPHIC MASTER

CODE IDENT NO.
SIZE D
1014650
SCALE 2:1
SHEET 2 OF 3

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

A | 1014650 | 2

REVISIONS TDRR 04798					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		SEE SHEET 1 FOR REVISION STATUS		4 NOV. 63	


1.500 REF
.969 REF
APOLLO G&N SYSTEM
NASA
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE "B"
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497
1014650-6
D&C ELECTRONICS ASSY.
1007059
NAS 9-497
1014650-5
CDU ASSEMBLY
1015500-011
NAS 9-497
1014650-4
IMU CONTROL PANEL ASSY.
1014526-011
NAS 9-497
1014650-2
2
2

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "B" SHEET 1.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 29 OCT 63 DATE
CHECKED 29 OCT 63
APPROVAL M. Mink 29 OCT 63
APPROVAL 29 OCT 63
NASA APPROVAL
MIT APPROVAL 11/20/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
PHOTOGRAPHIC MASTER

CODE IDENT NO. SIZE D 1014650
SCALE 4:1 SHEET 3 OF 3

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

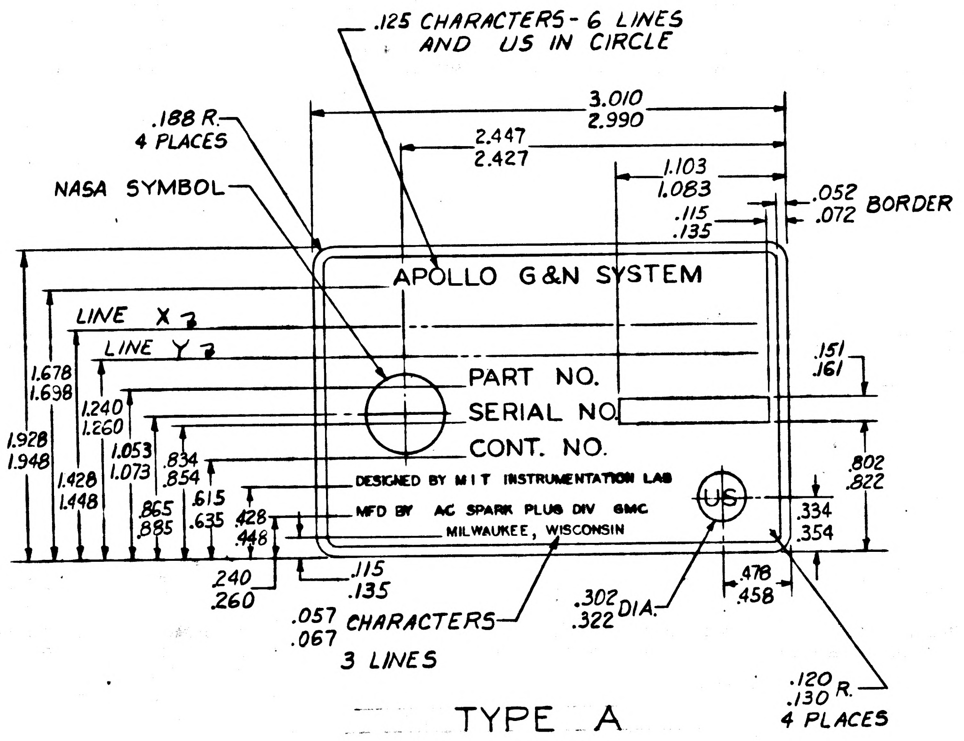
B 1014650 (mirrored)

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		REDRAW AND REVISED AS FOLLOW: ADDED-7, & TITLE OF -3 WAS, "OPTICS SHROUD AND COVER ASSEMBLY" UP GRADED FOR CLASS A RELEASE.	D.O. 55373	14 NOV. 63	JHH
B2		REVISED PER TDRR NO. 06361		25 FEB 64	W.K

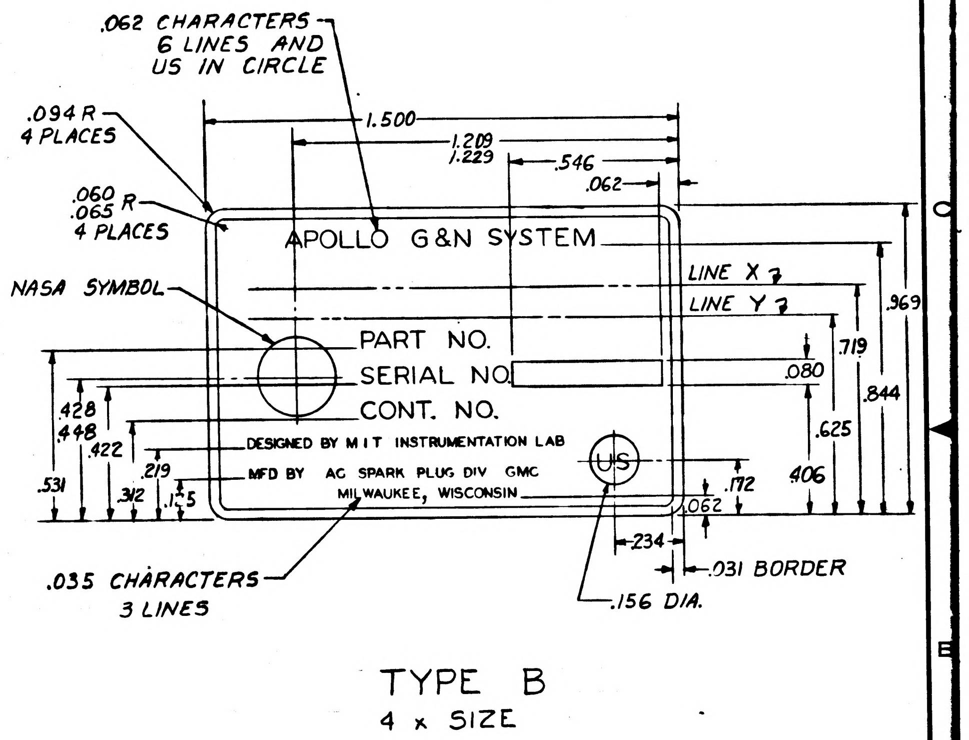
REVISIONS TDRR 04798

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 ON BACK OF PLATE.
6. SEE SHEET 2&3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120/.130 HIGH FOR TYPE "A" AND .057/.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231


.125 CHARACTERS - 6 LINES AND US IN CIRCLE
.188 R. 4 PLACES
NASA SYMBOL
3.010 2.990
2.447 2.427
1.103 1.083
.115 .135
.052 .072 BORDER
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC MILWAUKEE, WISCONSIN
US
1.678 1.698
1.928 1.948
1.240 1.260
1.428 1.448
1.053 1.073
.834 .854
.865 .885
.615 .635
.428 .448
.240 .260
.115 .135
.151 .161
.802 .822
.334 .354
.057 .067 CHARACTERS 3 LINES
.302 .322 DIA.
.478 .458
.120 .130 R. 4 PLACES

TYPE A
2 x SIZE


.062 CHARACTERS 6 LINES AND US IN CIRCLE
.094 R 4 PLACES
.060 .065 R 4 PLACES
NASA SYMBOL
1.500
1.209 1.229
.546
.062
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC MILWAUKEE, WISCONSIN
US
.969
.844
.719
.080
.625
.406
.172
.062
.428 .448
.422
.531
.219
.312
.125
.234
.031 BORDER
.156 DIA.
.035 CHARACTERS 3 LINES

TYPE B
4 x SIZE

(B1)

DRAWING NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-7	A	OPTICS COVER ASS'Y.	X	1014532		NAS 9-497
1014650-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		NAS 9-497
1014650-5	B	D&C ELECTRONICS ASSY.	X	1007059		NAS 9-497
1014650-4	B	CDU ASSEMBLY	X	1015500-011		NAS 9-497
1014650-3	A	OPTICS SHROUD ASSY	X	1014502-011		NAS 9-497
1014650-2	B	IMU CONTROL PANEL ASSY.	X	1014526-011		NAS 9-497
1014650-1	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

SHEET 1	SHEET 2	SHEET 3
A	A	A

REVISION STATUS OF SHEETS

NEXT ASSY	USED ON
1014532	1014513
1014606	1014606
1007059	↑
1015500-011	
1014502	
1014526-011	
1014578-011	1014513

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ -	±.02	+ -
- -	±.005	- -

DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP . N
DRAWN R. Kipling DATE 17 Oct 63
CHECKED C. Piopla 29 Oct 63
APPROVAL D.W. Mixberg 29 Oct 63
APPROVAL 29 Oct 63
NASA APPROVAL
MIT APPROVAL 11/20/63
Charleston 29 Oct 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

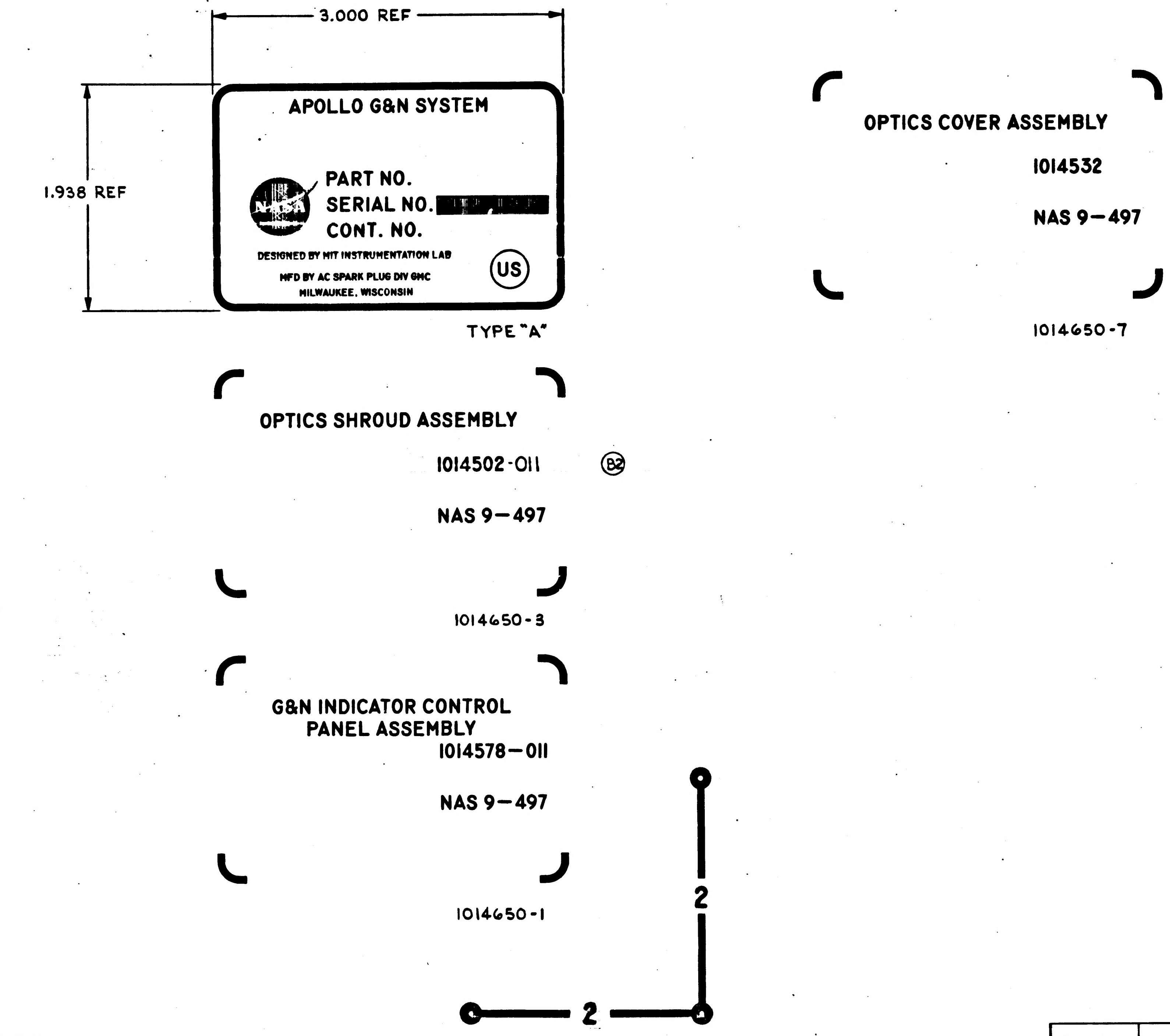
PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO.
SIZE D
1014650
SCALE 2 & 4 X
SHEET 1 OF 3

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS TORR 04796					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		SEE SHEET 1 FOR REVISION STATUS		4 NOV. 63	
B2		REVISED PER TORR NO. 06361		25 FEB 64	WK

Ⓜ


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE "A"
OPTICS COVER ASSEMBLY
1014532
NAS 9—497
1014650-7
OPTICS SHROUD ASSEMBLY
1014502-011
B2
NAS 9—497
1014650-3
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578—011
NAS 9—497
1014650-1
2
2

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN

DRAWN	JOHN HEITKEMPER	29 OCT 63
CHECKED	O. NIMKIE	29 OCT 63
APPROVAL	D. W. MELENZ	29 OCT 63
APPROVAL	A. J. KODEL	29 OCT 63
NASA APPROVAL		
MIT APPROVAL		

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
PHOTOGRAPHIC MASTER

CODE IDENT NO.	SIZE	
	D	1014650
SCALE 2:1		SHEET 2 OF 3

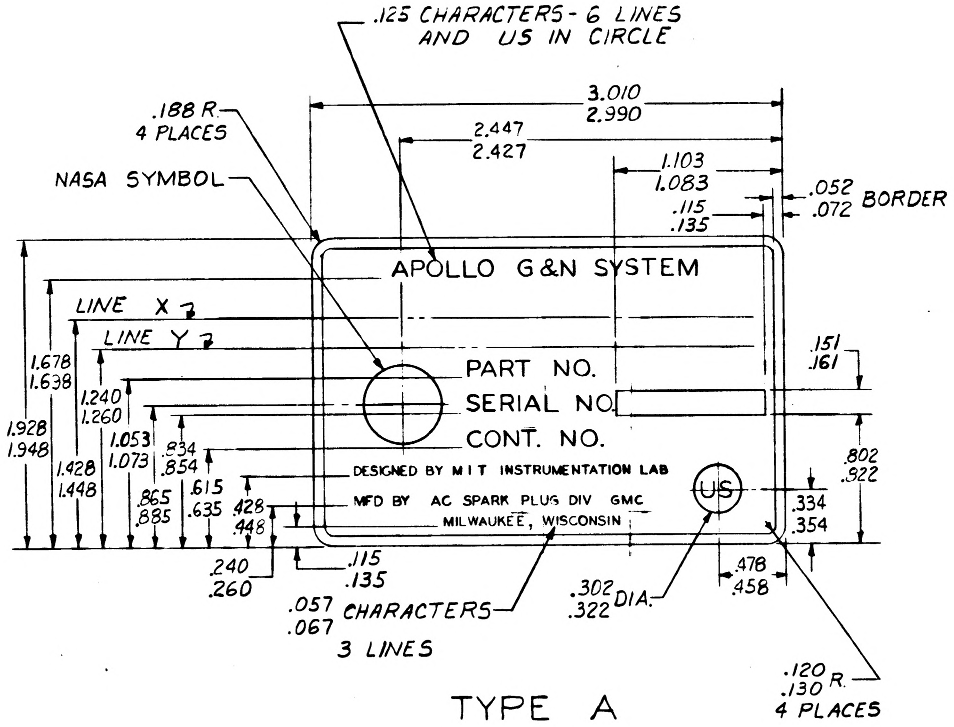
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

C 1014650

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		REVISIONS TDRR 04770			
A		REDRAW AND REVISED AS FOLLOW: ADDED -7, & TITLE OF -3 WAS, "OPTICS SHROUD AND COVER ASSEMBLY" UP GRADED FOR CLASS A RELEASE.	D.O. 55373	14 NOV 63	JHH
B 2		REVISED PER TDRR NO. 06361	25 FEB 64		WK
C		REVISED PER TDRR NO. 10172		23 JUNE 64	

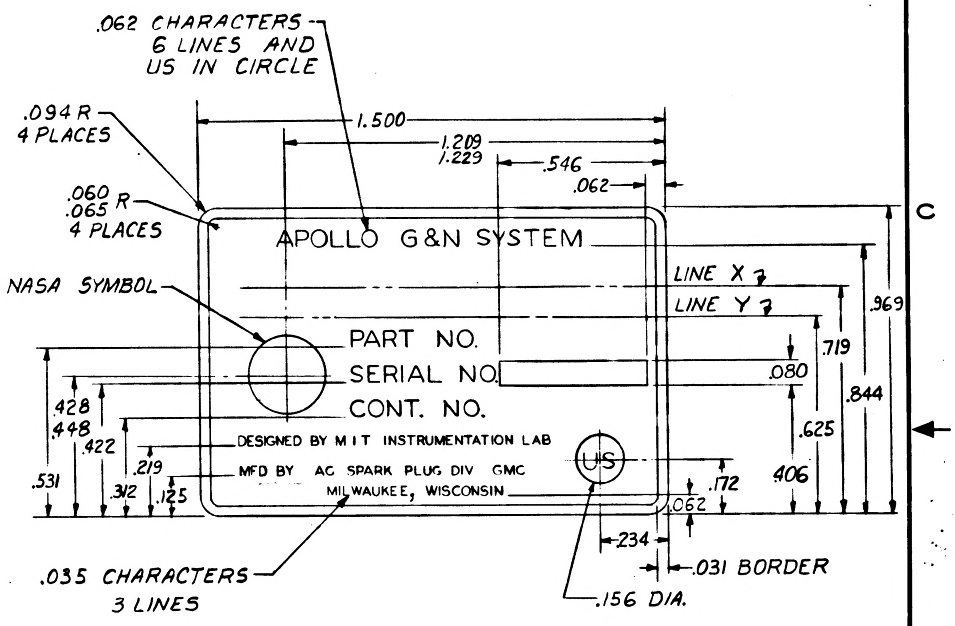
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 ON BACK OF PLATE.
6. SEE SHEET 2 & 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120/.130 HIGH FOR TYPE "A" AND .057/.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231


.125 CHARACTERS - 6 LINES AND US IN CIRCLE
.188 R 4 PLACES
NASA SYMBOL
3.010
2.990
2.447
2.427
1.103
1.083
.115
.135
.052
.072 BORDER
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
1.678
1.638
1.240
1.260
1.928
1.948
1.053
1.073
.834
.854
1.428
1.448
.865
.885
.615
.635
.428
.448
.151
.161
.802
.922
.334
.354
.240
.260
.115
.135
.057
.067 CHARACTERS 3 LINES
.302
.322 DIA.
.478
.458
.120
.130 R. 4 PLACES

TYPE A

2 x SIZE


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
.094 R 4 PLACES
.060
.065 R 4 PLACES
NASA SYMBOL
1.500
1.209
1.229
.546
.062
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.969
.719
.844
.080
.625
.406
.172
.062
.428
.448
.422
.219
.531
.312
.125
.234
.031 BORDER
.156 DIA.
.035 CHARACTERS 3 LINES

TYPE B

4 x SIZE

DRAWING NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-8	A	G&E INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		NAS 9-497
1014650-7	A	OPTICS COVER ASS'Y	X	1014532		NAS 9-497
1014650-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		NAS 9-497
1014650-5	B	D&C ELECTRONICS ASSY.	X	1007059		NAS 9-497
1014650-4	B	CDU ASSEMBLY	X	1015500-011		NAS 9-497
1014650-3	A	OPTICS SHROUD ASSY	X	1014502-011		NAS 9-497
1014650-2	B	IMU CONTROL PANEL ASSY.	X	1014526-011		NAS 9-497
1014650-1	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

(B1)

	SHEET 1	SHEET 2	SHEET 3
	C	C	A
	B	B	B
	A	A	A
REVISION STATUS OF SHEETS			

NEXT ASSY	USED ON
1014578-021	1014513
1014532	1014513
1014606	1014606
1007059	↑
1015500-011	
1014502	
1014526-011	
1014578-011	1014513
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +- -- DECIMALS ±.02 ±.005 ANGLES +- --
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. Pizzada 29 OCT 63
APPROVAL D.W. Mining 29 OCT 63
APPROVAL A Pizzada 29 Oct 63
NASA APPROVAL
MIT APPROVAL 11/20/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

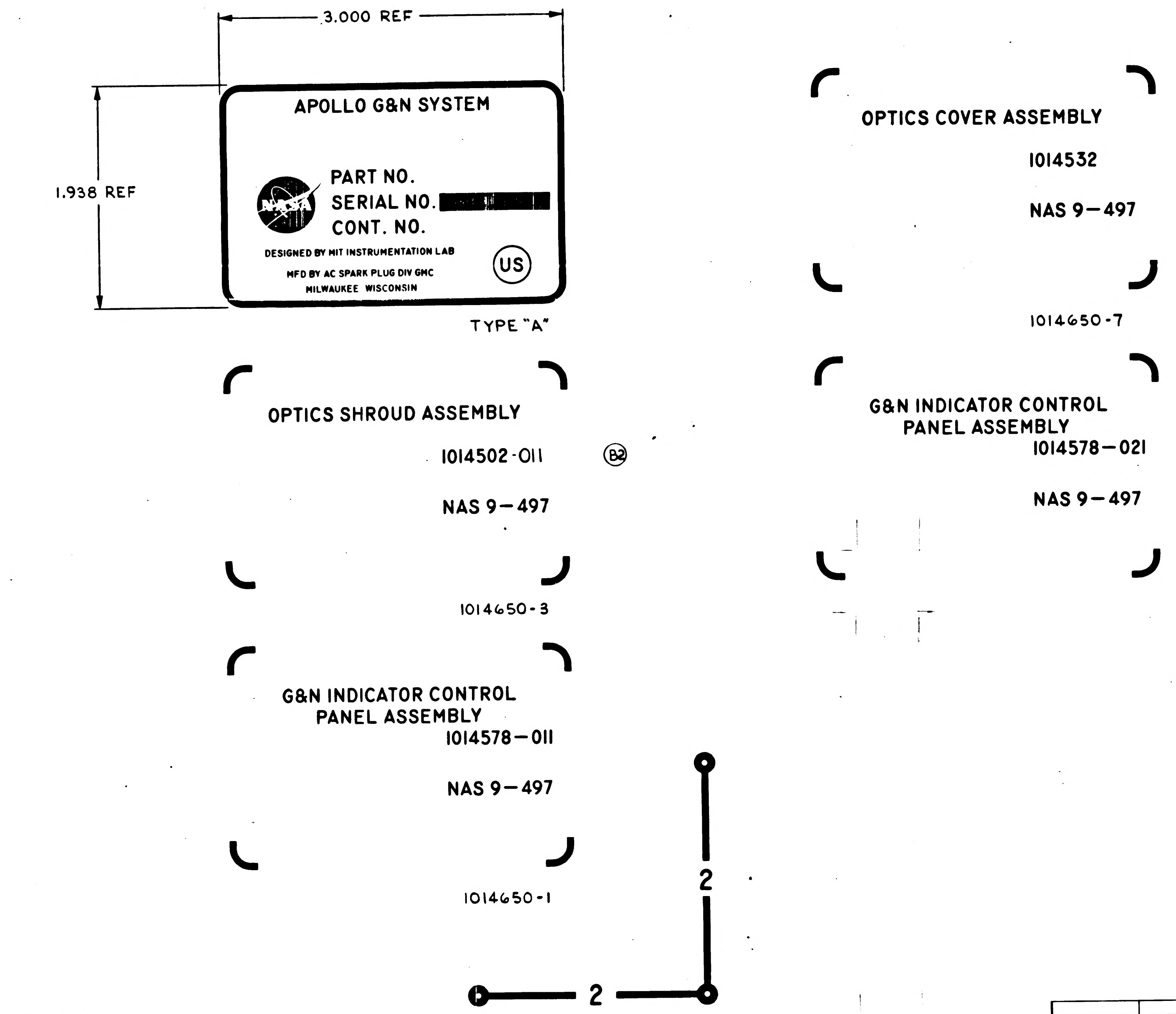
PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO. SIZE D 1014650
SCALE 2 & 4 X SHEET 1 OF 3

MIL 10770-F

C 1014650 2

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		SEE SHEET 1 FOR REVISION STATUS		4 NOV 63	
B2		REVISED PER TDRR NO. 06361		25 FEB 64	wh
C		REVISED PER TDRR NO. 10172		23 JUNE 64	



3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE WISCONSIN
US
TYPE "A"
OPTICS SHROUD ASSEMBLY
1014502-011
B2
NAS 9-497
1014650-3
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-011
NAS 9-497
1014650-1
OPTICS COVER ASSEMBLY
1014532
NAS 9-497
1014650-7
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-021
NAS 9-497
2
2

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION. GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN JOHN HEITKEMPER DATE 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL D. W. MELENZ 29 OCT 63
APPROVAL A. J. KODEL 29 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
PHOTOGRAPHIC MASTER

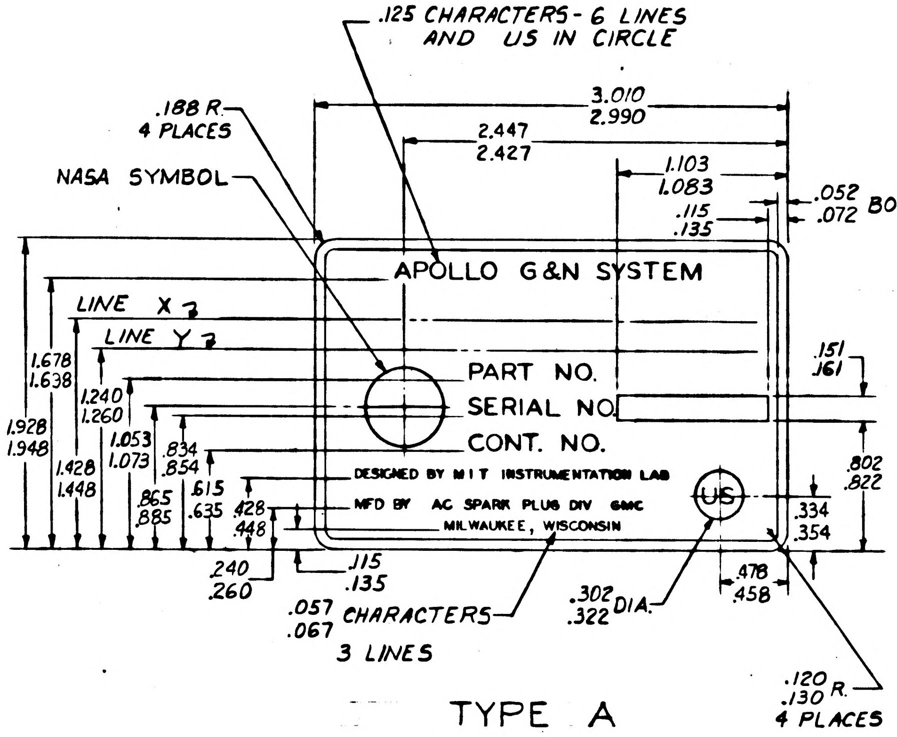
CODE IDENT NO
SIZE D
1014650
SCALE 2:1
SHEET 2 OF 3

1014650 D

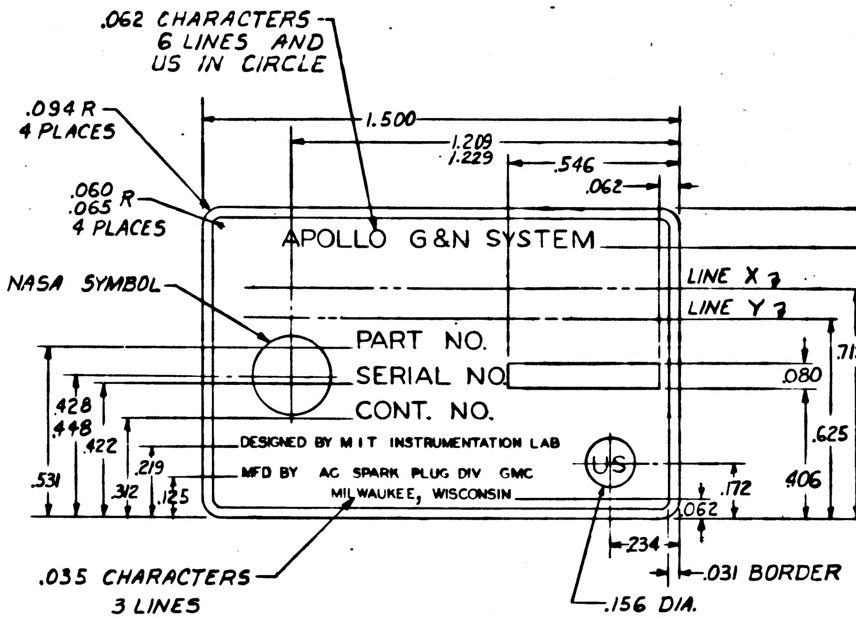
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL:
   ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 ON BACK OF PLATE.
6. SEE SHEET 2&3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120/.130 HIGH FOR TYPE "A" AND .057/.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231

REVISIONS TDRR 04798

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
(M) A		REDRAW AND REVISED AS FOLLOW: ADDED -7, & TITLE OF -3 WAS, "OPTICS SHROUD AND COVER ASSEMBLY" UP GRADED FOR CLASS A RELEASE.	D.O. 55378	14 NOV. 63	JHH
(M) B2		REVISED PER TDRR NO. 06361	25 FEB 64		WK
(M) C		REVISED PER TDRR NO. 10172		23 JUNE 64	
D		REVISED PER TDR NO. 10996		3 AUG 64	


.125 CHARACTERS - 6 LINES AND US IN CIRCLE
.188 R. 4 PLACES
NASA SYMBOL
3.010 2.990
2.447 2.427
1.103 1.083
.115 .135
.052 .072 BORDER
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
1.678 1.638
1.928 1.948
1.240 1.260
1.428 1.448
1.053 1.073
.834 .854
.865 .885
.615 .635
.428 .448
.240 .260
.115 .135
.151 .161
.802 .822
.334 .354
.478 .458
.057 .067 CHARACTERS 3 LINES
.302 .322 DIA.
.120 .130 R. 4 PLACES

TYPE A
2 x SIZE


.062 CHARACTERS 6 LINES AND US IN CIRCLE
.094 R 4 PLACES
.060 .065 R 4 PLACES
NASA SYMBOL
1.500
1.209 1.229
.546
.062
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.969
.719
.844
.080
.625
.406
.172
.062
.428 .448
.422
.531
.312
.219
.125
.234
.031 BORDER
.035 CHARACTERS 3 LINES
.156 DIA.

TYPE B
4 x SIZE

DRAWING NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		NAS 9-497
1014650-8	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		NAS 9-497
1014650-7	A	OPTICS COVER ASS'Y.	X	1014532		NAS 9-.497
1014650-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		NAS 9-497
1014650-5	B	D&C ELECTRONICS ASSY.	X	1007059		NAS 9-497
1014650-4	B	CDU ASSEMBLY	X	1015500-011		NAS 9-497
(B1) 1014650-3	A	OPTICS SHROUD ASSY	X	1014502-011		NAS 9-497
1014650-2	B	IMU CONTROL PANEL ASSY.	X	1014526-011		NAS 9-497
1014650-1	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

SHEET 1	SHEET 2	SHEET 3
D	C	D
C	C	A
B	B	B
A	A	A

REVISION STATUS OF SHEETS

APPLICATION

NEXT ASSY	USED ON
1014578-021	1014513
1014532	1014513
1014606	1014606
1007059	
1015500-011	
1014502	
1014526-011	
1014578-011	1014513

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ −	±.02	+ −
− −	±.005	− −

DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Karling DATE 17 Oct 63
CHECKED C. Pizzola 29 Oct 63
APPROVAL D.W. [illegible] 29 Oct 63
APPROVAL [illegible] 29 Oct 63
NASA APPROVAL
MIT APPROVAL [illegible] 11/29/63
Charleston 29 Oct 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO.
SIZE D
1014650
SCALE 2 & 4 X
SHEET 1 OF 3

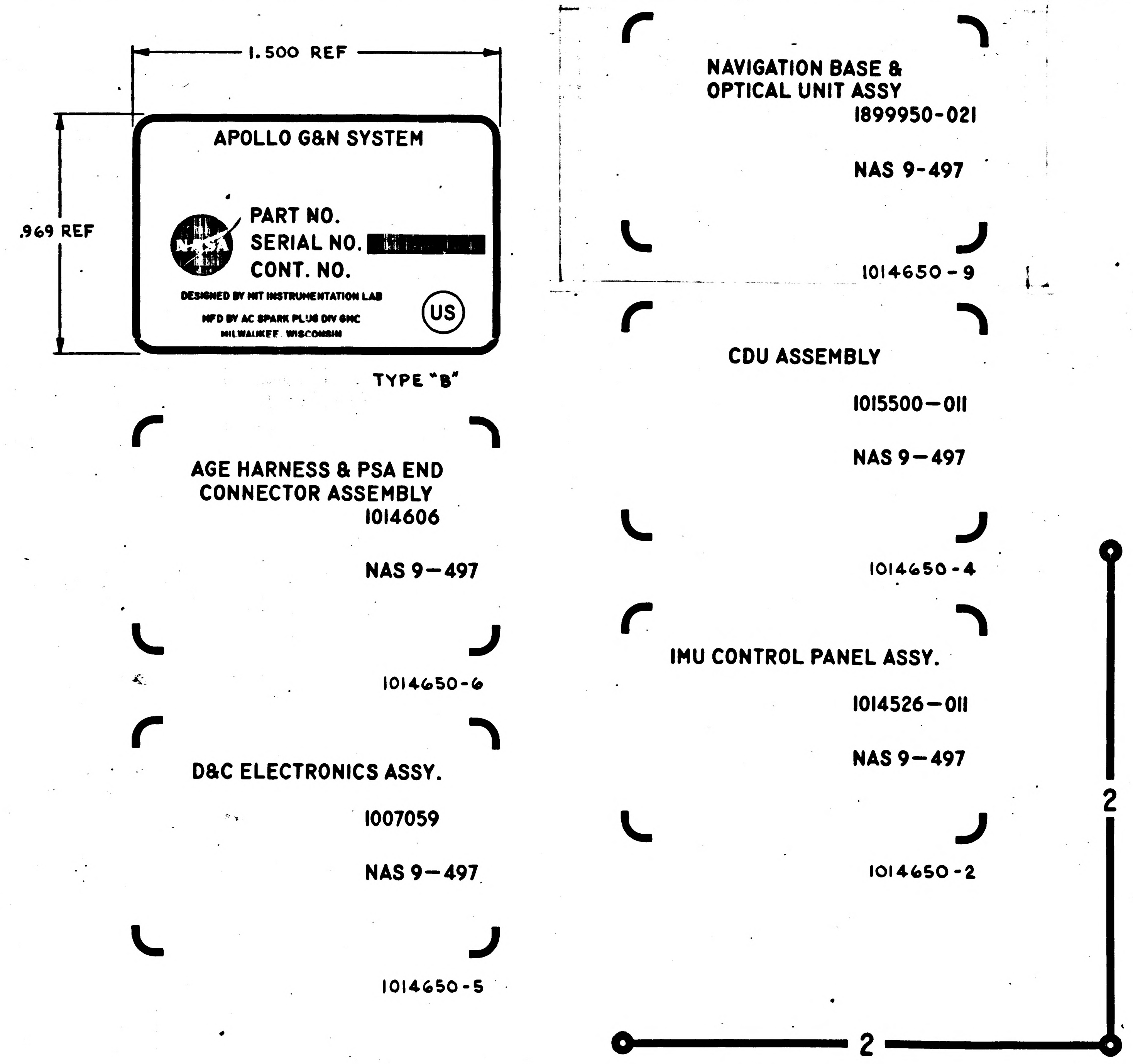
MIL 10770-P

D | 1014650 | 2

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		SEE SHEET I FOR REVISION STATUS		4 NOV. 63	
D		REVISED PER TDR NO. 10996		3 AUG 64	

REVISIONS TDRA 04798

Ⓜ



1.500 REF
.969 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE WISCONSIN
US
TYPE "B"
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497
1014650-9
CDU ASSEMBLY
1015500-011
NAS 9-497
1014650-4
IMU CONTROL PANEL ASSY.
1014526-011
NAS 9-497
1014650-2
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497
1014650-6
D&C ELECTRONICS ASSY.
1007059
NAS 9-497
1014650-5
2
2

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "B" SHEET 1.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ — + — + —
- — - — - —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 29 OCT 63 DATE
CHECKED 29 OCT 63
APPROVAL 29 OCT 63
APPROVAL 29 OCT 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION PHOTOGRAPHIC MASTER

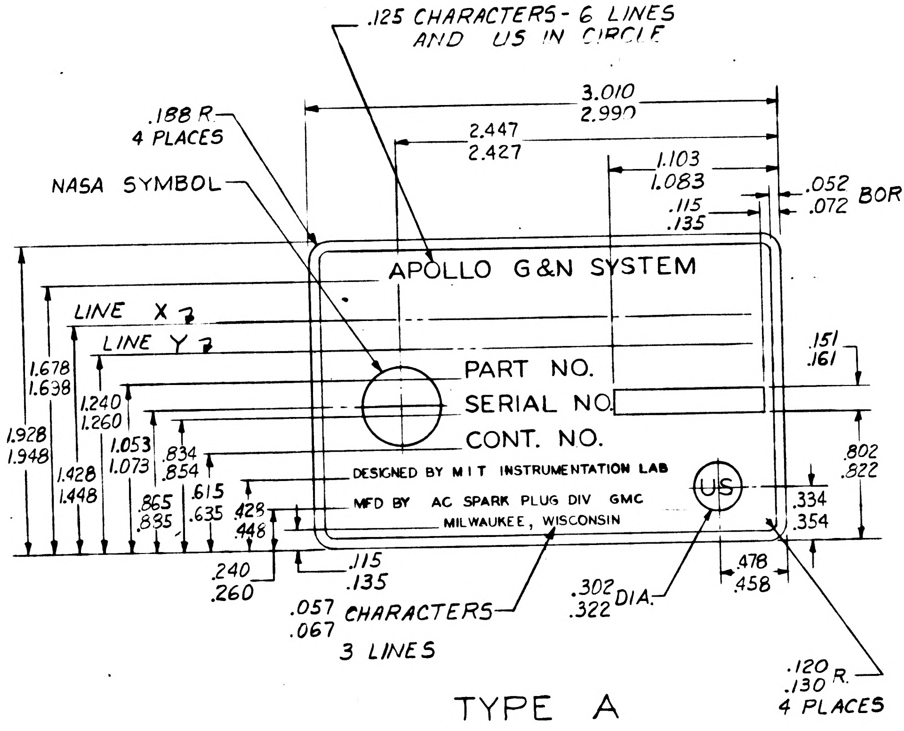
CODE IDENT NO
SIZE D
1014650
SCALE 4:1
SHEET 3 OF 3

Master

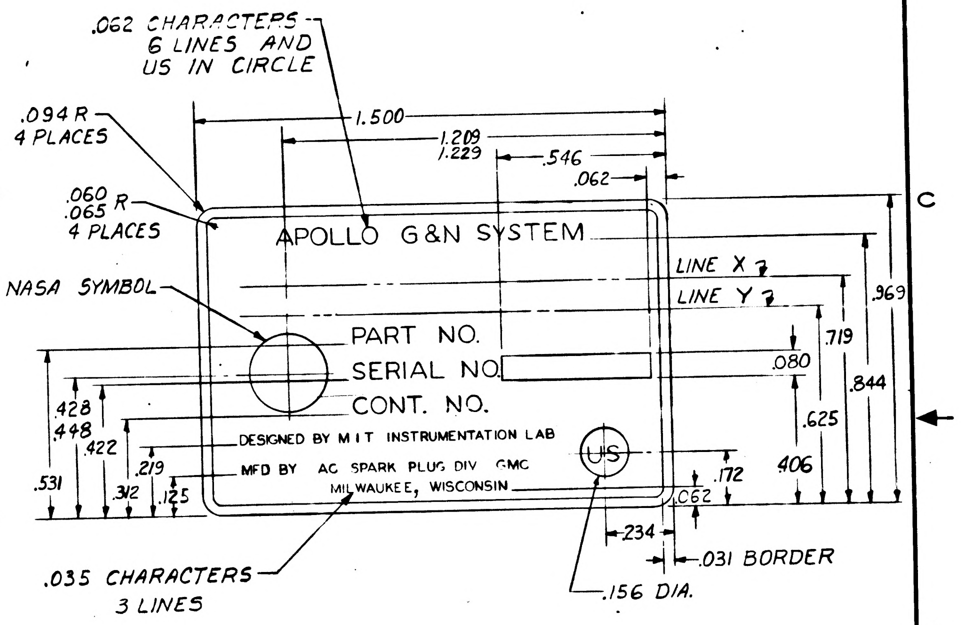
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL:
   ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 ON BACK OF PLATE.
6. SEE SHEET 2 & 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120/.130 HIGH FOR TYPE "A" AND .057/.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231

E 1014650

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD.
A		REDRAW AND REVISED AS FOLLOW: ADDED -7, & TITLE OF -3 WAS, "OPTICS SHROUD AND COVER ASSEMBLY UP GRADED FOR CLASS A RELEASE.	D. O. 55373	14 NOV. 63	JHH
B2		REVISED PER TDRR NO. 06361	25 FEB 64		W/H
C		REVISED PER TDRR NO. 10172		23 JUNE 64	
D		REVISED PER TDR NO. 10996		3 AUG 64	
E		REPLACED WITH CHANGE BY REV. F PER TDRR 14681		4 NOV 64	JJJ W.A


.125 CHARACTERS - 6 LINES AND US IN CIRCLE
.188 R - 4 PLACES
NASA SYMBOL
3.010 / 2.990
2.447 / 2.427
1.103 / 1.083
.115 / .135
.052 / .072 BORDER
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC MILWAUKEE, WISCONSIN
US
1.678 / 1.638
1.928 / 1.948
1.240 / 1.260
1.053 / 1.073
.834 / .854
1.428 / 1.448
.865 / .835
.615 / .635
.428 / .448
.151 / .161
.802 / .822
.334 / .354
.240 / .260
.115 / .135
.057 / .067 CHARACTERS 3 LINES
.302 / .322 DIA.
.478 / .458
.120 / .130 R. 4 PLACES

TYPE A
2 x SIZE


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
.094 R - 4 PLACES
.060 R - .065 4 PLACES
NASA SYMBOL
1.500
1.209 / 1.229
.546
.062
APOLLO G&N SYSTEM
LINE X
LINE Y
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY M I T INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC MILWAUKEE, WISCONSIN
US
.969
.719
.844
.080
.625
.406
.172
.062
.428 / .448
.422
.531
.219
.312
.125
.234
.031 BORDER
.035 CHARACTERS 3 LINES
.156 DIA.

TYPE B
4 x SIZE

DRAWING NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		NAS 9-497
1014650-8	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		NAS 9-497
1014650-7	A	OPTICS COVER ASS'Y	X	1014532		NAS 9-497
1014650-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		NAS 9-497
1014650-5	B	D&C ELECTRONICS ASSY.	X	1007059		NAS 9-497
1014650-4	B	CDU ASSEMBLY	X	1015500-011		NAS 9-497
1014650-3	A	OPTICS SHROUD ASSY	X	1014502-011		NAS 9-497
1014650-2	B	IMU CONTROL PANEL ASSY.	X	1014526-011		NAS 9-497
1014650-1	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

(B1)

SHEET 1	SHEET 2	SHEET 3
E	E	E
D	C	D
C	C	A
B	B	B
A	A	A

REVISION STATUS OF SHEETS

Ⓔ **REPLACED WITH CHANGE BY REV F**

NEXT ASSY	USED ON
1014578-021	1014513
1014532	1014513
1014606	1014606
1007059	
1015500-011	
1014502	
1014526-011	
1014578-011	1014513

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ -	±.02	+ -
- -	±.005	- -

DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 Oct 63
CHECKED C. Pirpda 29 Oct 63
APPROVAL D.W. Milung 29 Oct 63
APPROVAL 29 Oct 63
NASA APPROVAL
MIT APPROVAL 11/20/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

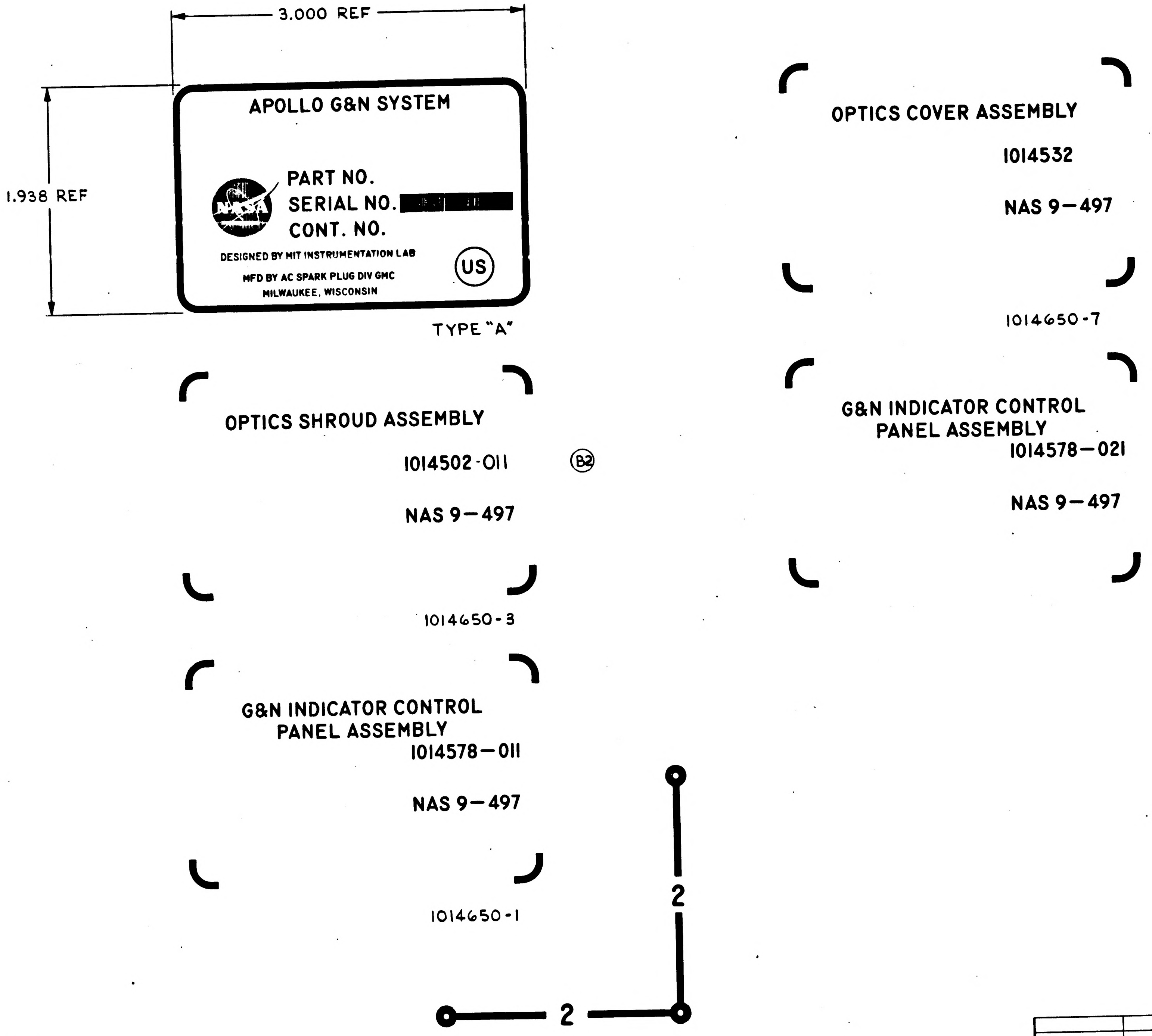
CODE IDENT NO.
SIZE D
1014650
SCALE 2 & 4 X
SHEET 1 OF 3

MIL 10770-P

3	1014650	2

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
Ⓜ A		SEE SHEET 1 FOR REVISION STATUS		4 NOV. 63	
Ⓜ B_2		REVISED PER TDRR NO. 06361		25 FEB 64	WK
Ⓜ C		REVISED PER TDRR NO. 10172		23 JUNE 64	
E		REPLACED WITH CHANGE BY REV. F PER TDRR 14681		4 NOV 64	JE


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE "A"
OPTICS COVER ASSEMBLY
1014532
NAS 9—497
1014650-7
OPTICS SHROUD ASSEMBLY
1014502-011
B2
NAS 9—497
1014650-3
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578—021
NAS 9—497
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578—011
NAS 9—497
1014650-1
2
2

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

Ⓔ REPLACED WITH CHANGE BY REV F

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — − —
DECIMALS + — − —
ANGLES + — − —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN JOHN HEITKEMPER DATE 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL D. W. MELENZ 29 OCT 63
APPROVAL A. J. KODEL 29 OCT 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
PHOTOGRAPHIC MASTER

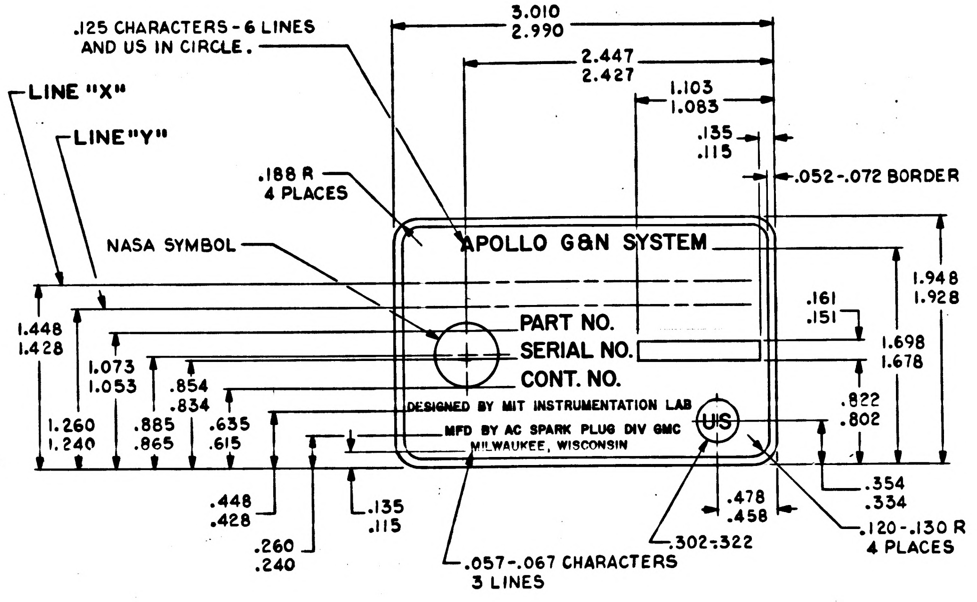
CODE IDENT NO
SIZE D
1014650
SCALE 2:1
SHEET 2 OF 3

MIL 10770-P

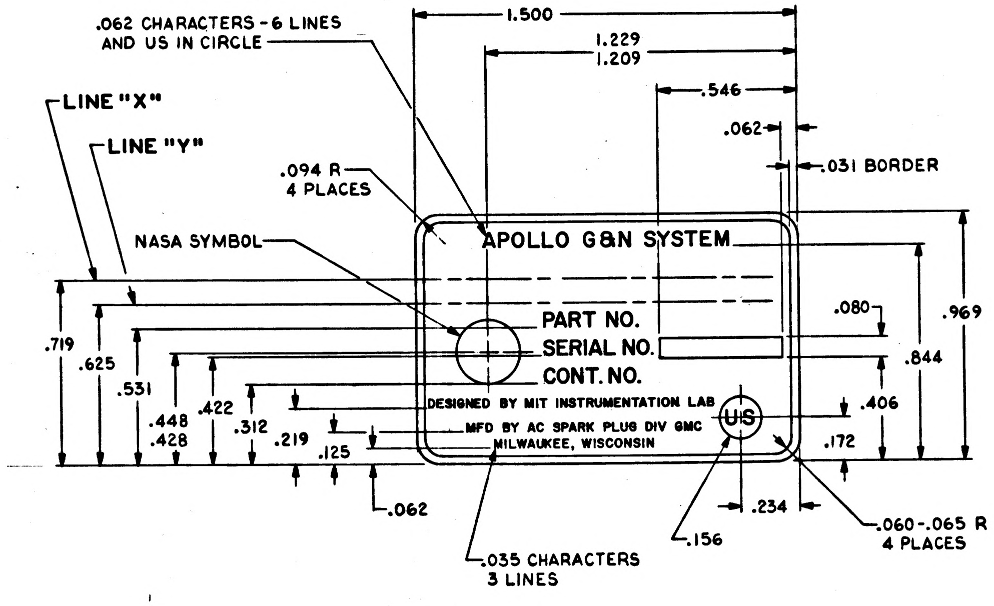
SYM	ZONE	DESCRIPTION	DATE	APPD.
F		REPLACES REV. E WITH CHANGE PER TDRR 1408	2 NOV 64	PHG

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER, WITH APPLICABLE DASH NO. AND REVISION LETTER PER *ND 1002019 ON BACK OF PLATE*
6. SEE SHEET 2 AND 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.


.125 CHARACTERS - 6 LINES AND US IN CIRCLE.
LINE "X"
LINE "Y"
.188 R 4 PLACES
NASA SYMBOL
3.010 2.990
2.447 2.427
1.103 1.083
.135 .115
.052-.072 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
1.948 1.928
.161 .151
1.698 1.678
.822 .802
1.448 1.428
1.073 1.053
.854 .834
1.260 1.240
.885 .865
.635 .615
.448 .428
.135 .115
.260 .240
.057-.067 CHARACTERS 3 LINES
.302-.322
.478 .458
.354 .334
.120-.130 R 4 PLACES

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
LINE "X"
LINE "Y"
.094 R 4 PLACES
NASA SYMBOL
1.500
1.229 1.209
.546
.062
.031 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.080
.969
.844
.406
.172
.719
.625
.531
.448 .428
.422
.312
.219
.125
.062
.234
.156
.060-.065 R 4 PLACES
.035 CHARACTERS 3 LINES

TYPE B
SCALE 4:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		NAS 9-497
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D&C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

F	F	F
SHEET 1	SHEET 2	SHEET 3

REVISION STATUS OF SHEETS

Ⓕ REPLACES REV E WITH CHANGE

		1015053-011	1015023-011
		1014606	1014606
		1014578-021	1014513
1015056	1015056	1014532	
1015500-031	1016903-031	1007059	
1015500-021	1016903-021	1015500-011	
1014628 011	1015023-021	1014502	
1014664-011	1015023-021	1014526-011	
1015095-011	1015023-011	1014578-011	1014513
NEXT ASSY	USED ON	NEXT ASSY	USED ON
APPLICATION		APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.02	+ —
— —	±.005	— —

DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL 12/4/64
NASA APPROVAL 12-8-64
MIT APPROVAL

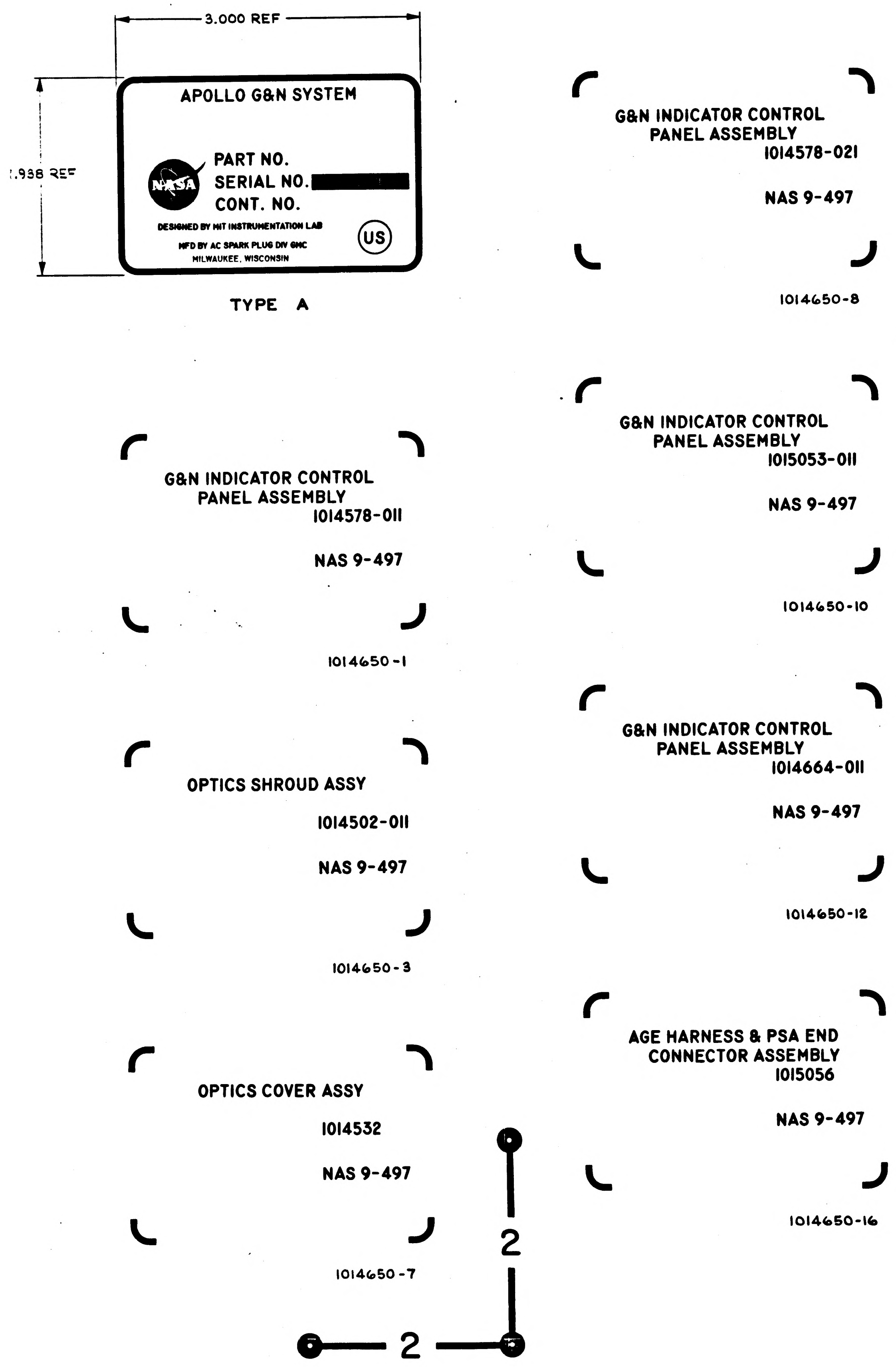
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO.
SIZE E
1014650
SCALE AS NOTED
SHEET 1 OF 3

CHARLESTON 29 OCT 63

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	3 NOV 64	JHH

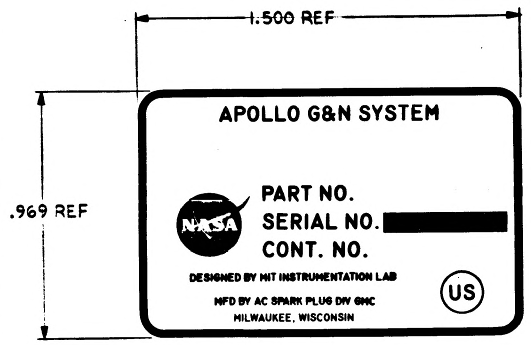

3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
NASA
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE A
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-021
NAS 9-497
1014650-8
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-011
NAS 9-497
1014650-1
G&N INDICATOR CONTROL PANEL ASSEMBLY
1015053-011
NAS 9-497
1014650-10
OPTICS SHROUD ASSY
1014502-011
NAS 9-497
1014650-3
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014664-011
NAS 9-497
1014650-12
OPTICS COVER ASSY
1014532
NAS 9-497
1014650-7
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1015056
NAS 9-497
1014650-16
2
2

NOTES:
1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

Ⓕ REPLACES REV E WITH CHANGE

NEXT ASSY / USED ON / APPLICATION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —	AC SPARK PLUG DIVISION GMC MILWAUKEE, WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
		DRAWN JOHN HEITKEMPER DATE 29 OCT 63 CHECKED O. NIMKIE 29 OCT 63 APPROVAL O.W. MIELENZ 29 OCT 63 APPROVAL 2/4/64	PLATE, IDENTIFICATION METAL FOIL
	DO NOT SCALE THIS DRAWING	NASA APPROVAL 2-8-64	CODE IDENT NO — SIZE E — 1014650
	MATERIAL —	MIT APPROVAL	SCALE 2:1 — SHEET 2 OF 3
	CONTRACT NAS9-497		

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 Nov 64	PHG


1.500 REF
.969 REF
APOLLO G&N SYSTEM
NASA
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US

TYPE B

IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497

1014650-2

CDU ASSEMBLY
1015500-011
NAS 9-497

1014650-4

D&C ELECTRONICS ASSY
1007059
NAS 9-497

1014650-5

AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497

1014650-6

NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497

1014650-9

IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497

1014650-11

IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497

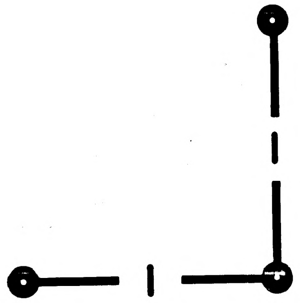
1014650-13

CDU ASSEMBLY
1015500-021
NAS 9-497

1014650-14

CDU ASSEMBLY
1015500-031
NAS 9-497

1014650-15



NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

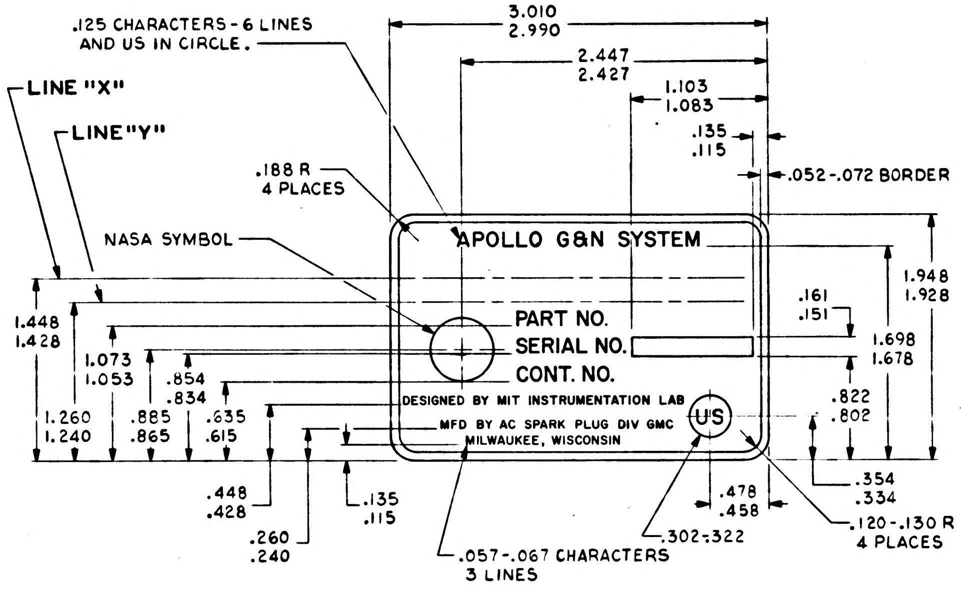
Ⓕ REPLACES REV E WITH CHANGE

NEXT ASSY / USED ON — APPLICATION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
	DO NOT SCALE THIS DRAWING	ACSP PN	PLATE, IDENTIFICATION METAL FOIL	
		DRAWN JOHN HEITKEMPER DATE 29 OCT 63		
		CHECKED O. NIMKIE 29 OCT 63		
		APPROVAL D.W. MELENZ 29 OCT 63		
	MATERIAL —	APPROVAL	CODE IDENT NO.	SIZE E 1014650
		NASA APPROVAL		
	CONTRACT NAS 9-497	MIT APPROVAL	SCALE 4:1	SHEET 3 OF 3

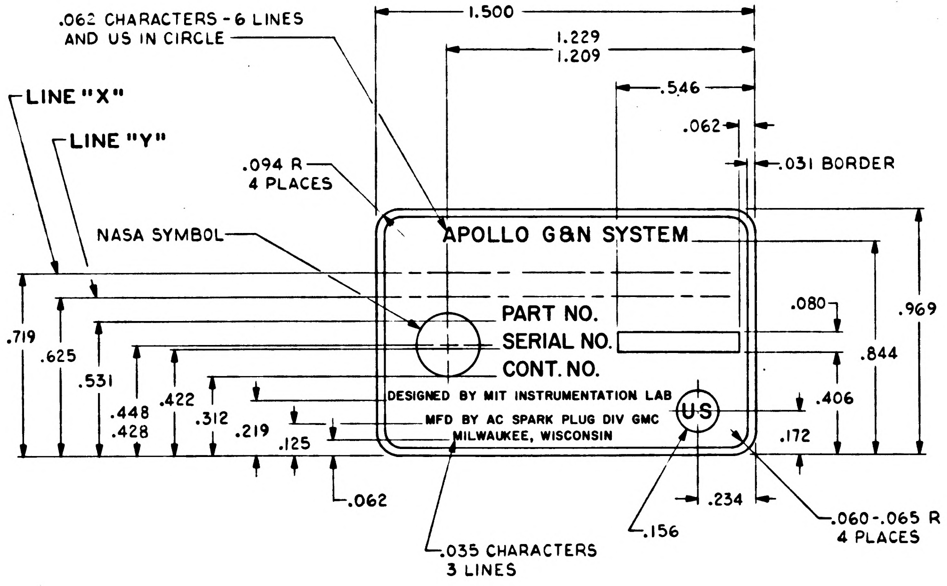
REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 65	RGB

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER WITH APPLICABLE DASH NO. AND REVISION LETTER PER ND 1002019 ON BACK OF PLATE
6. SEE SHEET 2 AND 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.


.125 CHARACTERS - 6 LINES AND US IN CIRCLE.
3.010
2.990
2.447
2.427
1.103
1.083
.135
.115
.052-.072 BORDER
LINE "X"
LINE "Y"
.188 R
4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
1.948
1.928
.161
.151
1.698
1.678
.822
.802
.354
.334
1.448
1.428
1.073
1.053
.854
.834
1.260
1.240
.885
.865
.635
.615
.448
.428
.260
.240
.135
.115
.478
.458
.302-.322
.120-.130 R
4 PLACES
.057-.067 CHARACTERS
3 LINES

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
1.500
1.229
1.209
.546
.062
.031 BORDER
LINE "X"
LINE "Y"
.094 R
4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.080
.969
.844
.406
.172
.719
.625
.531
.448
.428
.422
.312
.219
.125
.062
.234
.156
.060-.065 R
4 PLACES
.035 CHARACTERS
3 LINES

TYPE B
SCALE 4:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-18	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-041		NAS 9-497
-17	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-031		
-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D&C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

	G	F	G
	F	F	F
	SHEET 1	SHEET 2	SHEET 3

REVISION STATUS OF SHEETS

Ⓕ REPLACES REV E WITH CHANGE

NEXT ASSY	USED ON	NEXT ASSY	USED ON
		1015053-011	1015023-011
		1014606	1014606
		1014578-021	1014513
1015056	1015056	1014532	
1015500-031	1016903-031	1007059	
1015500-021	1016903-021	1015500-011	
1014628-011	1015023-021	1014502	
1014664-011	1015023-021	1014526-011	
1015095-011	1015023-011	1014578-011	1014513
APPLICATION		APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — − —
DECIMALS ±.02 ±.005
ANGLES + — − —
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL 12-8-64
MIT APPROVAL
CHARLESTON 29 OCT 63

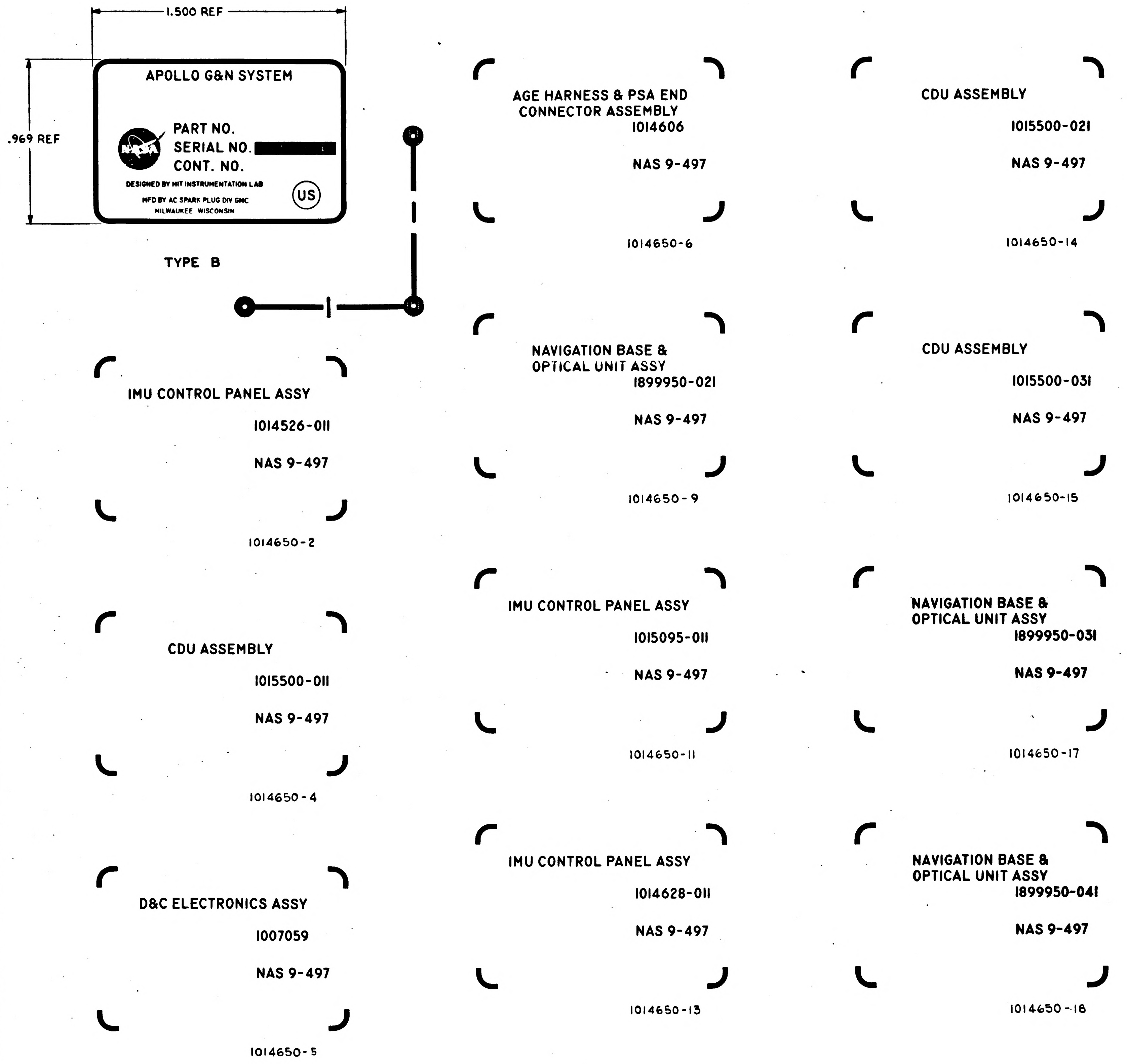
MANNED SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE AS NOTED
SHEET 1 OF 3

1014650 SH 1 OF 3

REV	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 65	RGB


1.500 REF
.969 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE WISCONSIN
US
TYPE B
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497
1014650-6
CDU ASSEMBLY
1015500-021
NAS 9-497
1014650-14
IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497
1014650-2
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497
1014650-9
CDU ASSEMBLY
1015500-031
NAS 9-497
1014650-15
CDU ASSEMBLY
1015500-011
NAS 9-497
1014650-4
IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497
1014650-11
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-031
NAS 9-497
1014650-17
D&C ELECTRONICS ASSY
1007059
NAS 9-497
1014650-5
IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497
1014650-13
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-041
NAS 9-497
1014650-18

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

Ⓕ REPLACES REV E WITH CHANGE

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN JOHN HEITKEMPER DATE 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL D.W. MELENZ 29 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE 4:1
SHEET 3 OF 3

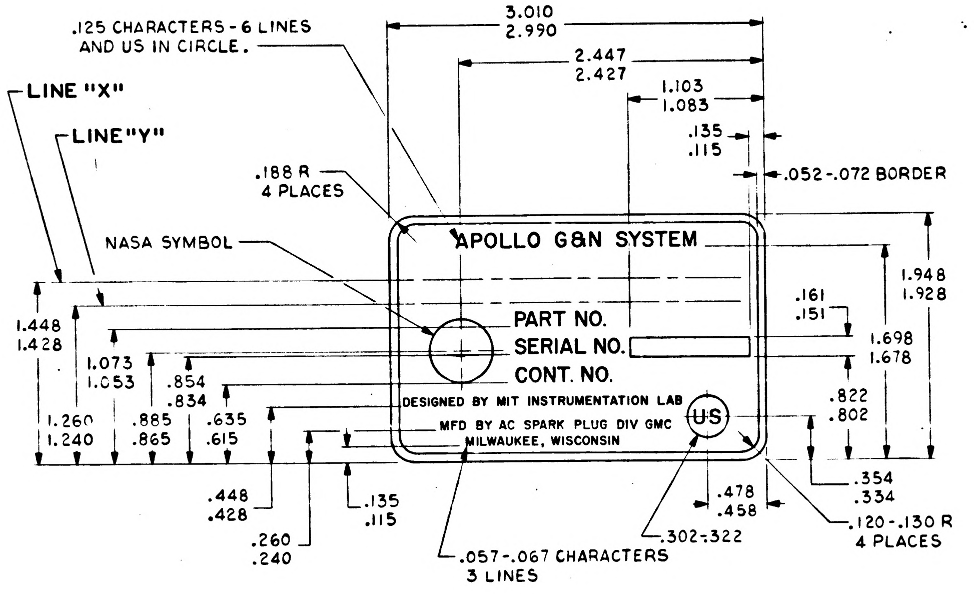
1014820
2H 3 OF 3

SH 1 OF 3
1014650

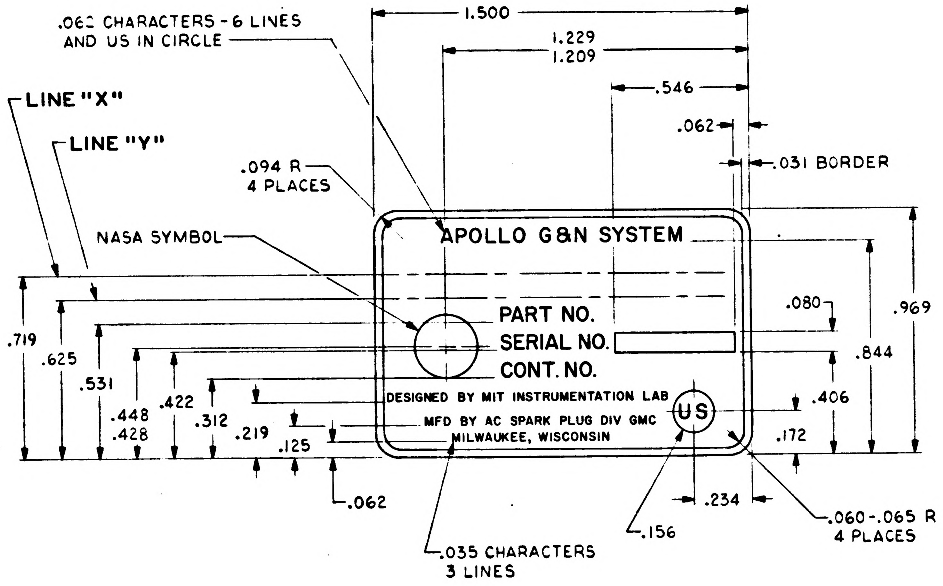
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER WITH APPLICABLE DASH NO. AND REVISION LETTER PER [illegible] ON FACE OF PLATE
6. SEE SHEET 2 AND 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.


.125 CHARACTERS - 6 LINES AND US IN CIRCLE.
LINE "X"
LINE "Y"
.188 R 4 PLACES
NASA SYMBOL
3.010 2.990
2.447 2.427
1.103 1.083
.135 .115
.052-.072 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
1.948 1.928
.161 .151
1.698 1.678
.822 .802
.354 .334
.478 .458
.120-.130 R 4 PLACES
.302-.322
1.448 1.428
1.073 1.053
.854 .834
1.260 1.240
.885 .865
.635 .615
.448 .428
.260 .240
.135 .115
.057-.067 CHARACTERS 3 LINES

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
LINE "X"
LINE "Y"
.094 R 4 PLACES
NASA SYMBOL
1.500
1.229 1.209
.546
.062
.031 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.080
.969
.844
.406
.172
.234
.060-.065 R 4 PLACES
.156
.719
.625
.531
.448 .428
.422
.312
.219
.125
.062
.035 CHARACTERS 3 LINES

TYPE B
SCALE 4:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-23	B	IMU CONTROL PANEL ASSY	X	1014526-021		NAS 9-497
1014650-22	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-031		NAS 9-497
1014650-21	B	CDU ASSEMBLY	X	1015500-041		NAS 9-497
1014650-18	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-041		NAS 9-497
-17	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-031		
-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D & C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

SHEET 1	SHEET 2	SHEET 3
H	H	H
G	F	G
F	F	F

REVISION STATUS OF SHEETS

Ⓗ REPLACES REV G WITH CHANGE

APPLICATION		APPLICATION	
NEXT ASSY	USED ON	NEXT ASSY	USED ON
1015500-041	1016903-031	1015053-011	1015023-011
1014578-031	1014513	1014606	1014606
1014526-021	1014513	1014578-021	1014513
1015056	1015056	1014532	
1015500-031	1016903-031	1007059	
1015500-021	1016903-021	1015500-011	
1014628-011	1015023-021	1014502	
1014664-011	1015023-021	1014526-011	
1015095-011	1015023-011	1014578-011	1014513

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — - —
DECIMALS ±.02 ±.005
ANGLES + — - —
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

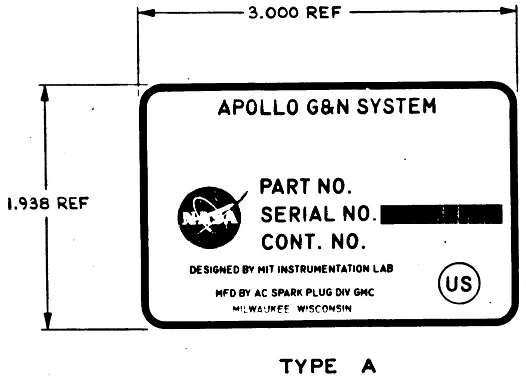
AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
CHARLESTON 29 OCT 63

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE AS NOTED
SHEET 1 OF 3

REVISIONS			
		DATE	APPD
F	REPLACES REV E WITH CHANGE PER TDRR 14681	3 NOV 64	JWH
H	REPLACES REV F WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE WISCONSIN
US

TYPE A

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-021

NAS 9-497

1014650-8

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-031

NAS 9-497

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1015053-011

NAS 9-497

1014650-10

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-011

NAS 9-497

1014650-1

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014664-011

NAS 9-497

1014650-12

OPTICS SHROUD ASSY

1014502-011

NAS 9-497

1014650-3

AGE HARNESS & PSA END
CONNECTOR ASSEMBLY
1015056

NAS 9-497

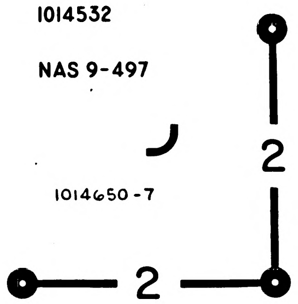
1014650-16

OPTICS COVER ASSY

1014532

NAS 9-497

1014650-7



NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

Ⓗ REPLACES REV F WITH CHANGE

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — − — DECIMALS + — − — ANGLES + — − —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

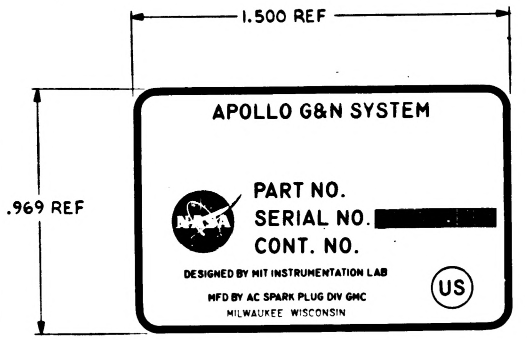
AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
DRAWN JOHN HEITKEMPER 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL O.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E 1014650
SCALE 2:1
SHEET 2 OF 3

REVISIONS				
			DATE	APPD
F		REPLACES REV. F WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.



TYPE B

IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497

1014650-2

CDU ASSEMBLY
1015500-011
NAS 9-497

1014650-4

D&C ELECTRONICS ASSY
1007059
NAS 9-497

1014650-5

AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497

1014650-6

NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497

1014650-9

IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497

1014650-11

IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497

1014650-13

CDU ASSEMBLY
1015500-021
NAS 9-497

1014650-14

CDU ASSEMBLY
1015500-031
NAS 9-497

1014650-15

NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-031
NAS 9-497

1014650-17

NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-041
NAS 9-497

1014650-18

CDU ASSEMBLY
1015500-041
NAS 9-497

1014650-21

IMU CONTROL PANEL ASSY
1014526-021
NAS 9-497

1014650-23

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

(H) REPLACES REV G WITH CHANGE

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
APPLICATION		DO NOT SCALE THIS DRAWING	DRAWN JOHN HEITKEMPER 29 OCT 63 CHECKED O NIMKIE 29 OCT 63 APPROVAL D.W. MELENZ 29 OCT 63 APPROVAL	PLATE, IDENTIFICATION METAL FOIL
		MATERIAL —	NASA APPROVAL	CODE IDENT NO	SIZE E	1014650
		CONTRACT NAS 9-497	MIT APPROVAL	SCALE 4:1	SHEET 3 OF 3

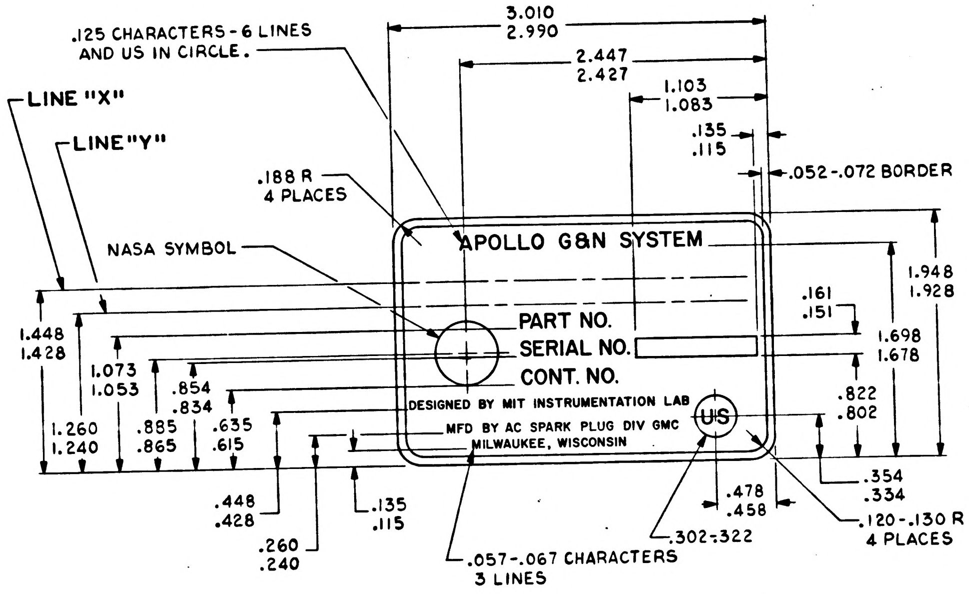
2H 3 OF 3
1014650

1014650
SH 1 OF 3

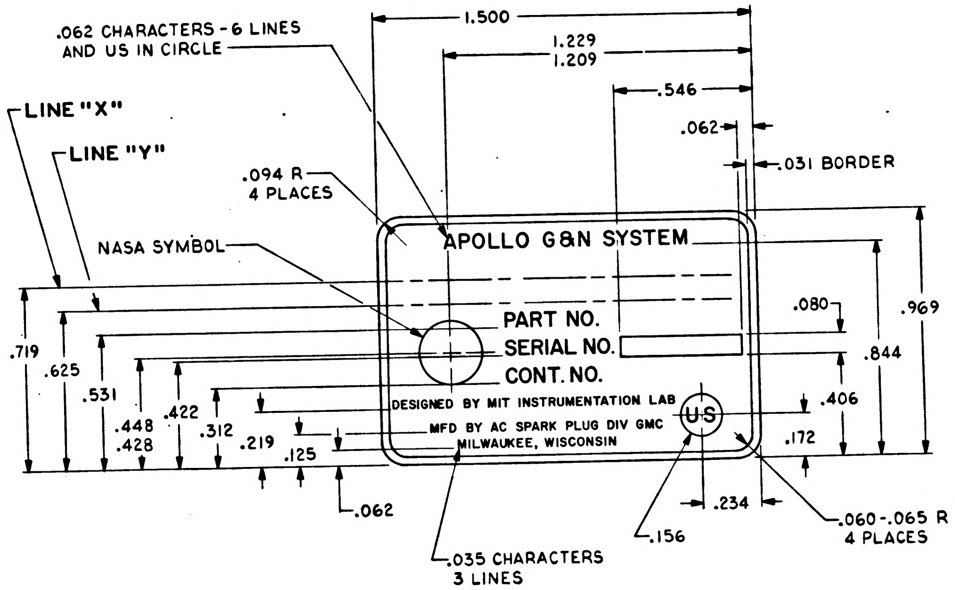
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER, WITH APPLICABLE DASH NO. AND REVISION LETTER PER ND 1002019 ON BACK OF PLATE
6. SEE SHEET 2 AND 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.


.125 CHARACTERS - 6 LINES AND US IN CIRCLE.
3.010
2.990
2.447
2.427
1.103
1.083
.135
.115
.052-.072 BORDER
LINE "X"
LINE "Y"
.188 R
4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
1.948
1.928
.161
.151
1.698
1.678
.822
.802
1.448
1.428
1.073
1.053
.854
.834
1.260
1.240
.885
.865
.635
.615
.354
.334
.448
.428
.135
.115
.478
.458
.120-.130 R
4 PLACES
.260
.240
.302-.322
.057-.067 CHARACTERS
3 LINES

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
1.500
1.229
1.209
.546
.062
.031 BORDER
LINE "X"
LINE "Y"
.094 R
4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.080
.969
.844
.719
.625
.531
.448
.428
.422
.312
.219
.125
.406
.172
.062
.234
.156
.060-.065 R
4 PLACES
.035 CHARACTERS
3 LINES

TYPE B
SCALE 4:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-27	B	CDU ASSEMBLY TEST ARTICLE	X Y	1017570-011		NAS 9-497
1014650-23	B	IMU CONTROL PANEL ASSY	X	1014526-021		NAS 9-497
1014650-22	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-031		NAS 9-497
1014650-21	B	CDU ASSEMBLY	X	1015500-041		NAS 9-497
1014650-18	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-041		NAS 9-497
-17	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-031		
-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D & C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

Ⓗ REPLACES REV G WITH CHANGE

		1017570-011	1017570-011
1015500-041	1016903-031	1015053-011	1015023-011
1014578-031	1014513	1014606	1014606
1014526-021	1014513	1014578-021	1014513
1015056	1015056	1014532	
1015500-031	1016903-031	1007059	
1015500-021	1016903-021	1015500-011	
1014628-011	1015023-021	1014502	
1014664-011	1015023-021	1014526-011	
1015095-011	1015023-011	1014578-011	1014513
NEXT ASSY	USED ON	NEXT ASSY	USED ON
APPLICATION		APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.02	+ —
— —	±.005	— —

DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL 12-7-64
MIT APPROVAL
CHARLESTON 29 OCT 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

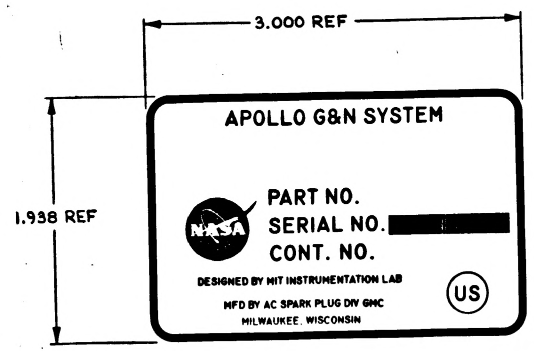
PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE AS NOTED
SHEET 1 OF 3

MIL 10775-F

1014650
SH 1 OF 3

REV	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	3 NOV 64	JHH
H		REPLACES REV F WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US

TYPE A

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-021
NAS 9-497

1014650-8

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-031
NAS 9-497

1014650-22

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-011
NAS 9-497

1014650-1

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1015053-011
NAS 9-497

1014650-10

OPTICS SHROUD ASSY
1014502-011
NAS 9-497

1014650-3

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014664-011
NAS 9-497

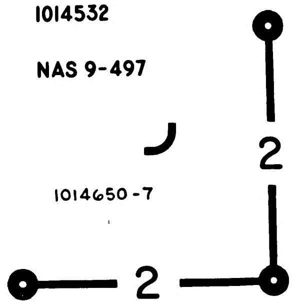
1014650-12

OPTICS COVER ASSY
1014532
NAS 9-497

1014650-7

AGE HARNESS & PSA END
CONNECTOR ASSEMBLY
1015056
NAS 9-497

1014650-16



NOTES:
1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

Ⓗ REPLACES REV F WITH CHANGE

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

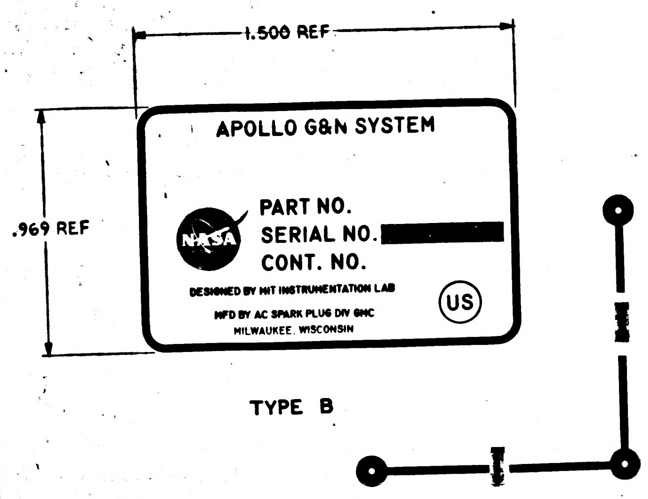
AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
DRAWN JOHN HEITKEMPER 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL O.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO | SIZE E | 1014650
SCALE 2:1 | SHEET 2 OF 3

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB CW
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N. CW
J		REVISED PER TDRR 20428	14 JUL 65	A.N.



TYPE B

AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497

1014650-6

CDU ASSEMBLY
1015500-021
NAS 9-497

1014650-14

[redacted]

1014650-21

IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497

1014650-2

NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497

1014650-9

CDU ASSEMBLY
1015500-031
NAS 9-497

1014650-15

IMU CONTROL PANEL ASSY
1014526-021
NAS 9-497

1014650-23

CDU ASSEMBLY
1015500-011
NAS 9-497

1014650-4

IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497

1014650-11

[redacted]

1014650-17

CDU ASSEMBLY
TEST ARTICLE
1017570-011
NAS 9-497

1014650-27

D&C ELECTRONICS ASSY
1007059
NAS 9-497

1014650-5

IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497

1014650-13

[redacted]

1014650-18

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

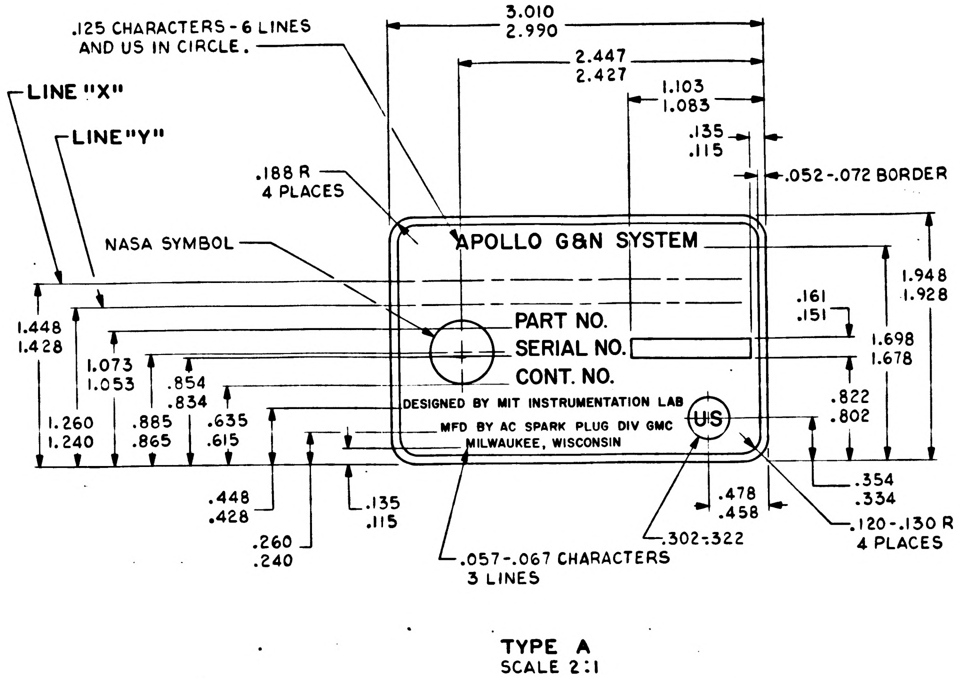
Ⓗ REPLACES REV G WITH CHANGE

NEXT ASSY / USED ON APPLICATION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON TEXAS	
	MATERIAL ——	DRAWN JOHN HEITKEMPER 29 OCT 63 CHECKED O. NIMKIE 29 OCT 63 APPROVAL D.W. MELENZ 29 OCT 63 APPROVAL NASA APPROVAL MIT APPROVAL	PLATE, IDENTIFICATION METAL FOIL	
	CONTRACT NAS 9-497		CODE IDENT NO SCALE 4:1	SIZE E 1014650 SHEET 3 OF 3

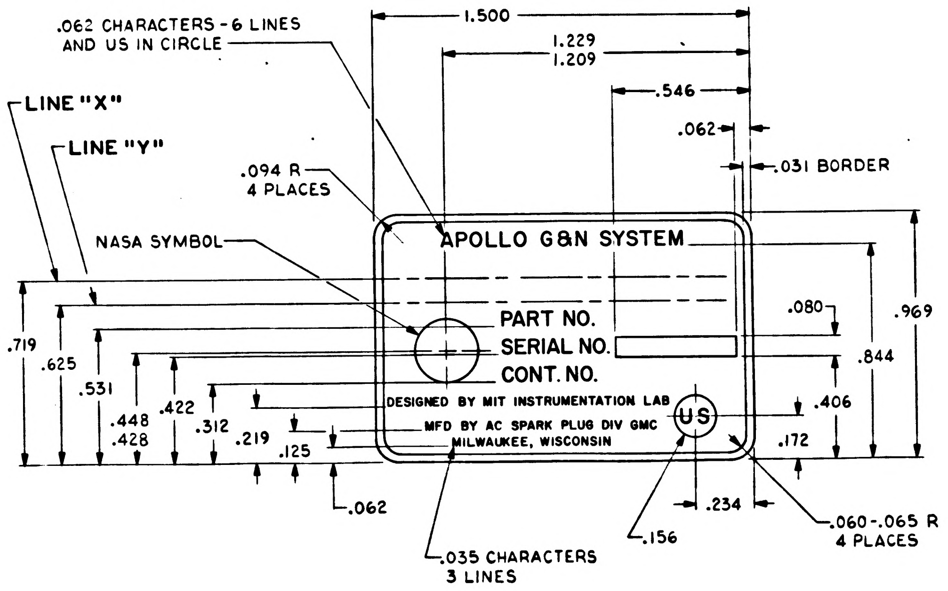
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER WITH APPLICABLE DASH NO. AND REVISION LETTER PER ND [illegible] ON BACK OF PLATE
6. SEE SHEET 2 AND 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.


.125 CHARACTERS - 6 LINES AND US IN CIRCLE
LINE "X"
LINE "Y"
.188 R 4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
3.010 2.990
2.447 2.427
1.103 1.083
.135 .115
.052-.072 BORDER
1.948 1.928
.161 .151
1.698 1.678
.822 .802
.354 .334
.120-.130 R 4 PLACES
.478 .458
.302-.322
.057-.067 CHARACTERS 3 LINES
1.448 1.428
1.073 1.053
.854 .834
1.260 1.240
.885 .865
.635 .615
.448 .428
.260 .240
.135 .115

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
LINE "X"
LINE "Y"
.094 R 4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
1.500
1.229 1.209
.546
.062
.031 BORDER
.080
.969
.844
.406
.172
.234
.060-.065 R 4 PLACES
.156
.035 CHARACTERS 3 LINES
.719
.625
.531
.448 .428
.422
.312
.219
.125
.062

TYPE B
SCALE 4:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-27	B	CDU ASSEMBLY	X	1017570-011		NAS 9-497
		TEST ARTICLE	Y			
1014650-26	A	G & N INDICATOR CONTROL	X	1014578-041		NAS 9-497
		PANEL ASSEMBLY	Y			
1014650-25	B	IMU CONTROL PANEL ASSY	X	1014526-031		NAS 9-497
1014650-23	B	IMU CONTROL PANEL ASSY	X	1014526-021		NAS 9-497
1014650-22	A	G & N INDICATOR CONTROL	X	1014578-031		NAS 9-497
		PANEL ASSEMBLY	Y			
1014650-21	B	CDU ASSEMBLY	X	1015500-041		NAS 9-497
1014650-18	B	NAVIGATION BASE &	X	1899950-041		NAS 9-497
		OPTICAL UNIT ASSEMBLY	Y			
-17	B	NAVIGATION BASE &	X	1899950-031		
		OPTICAL UNIT ASSEMBLY	Y			
-16	A	AGE HARNESS & PSA END	X	1015056		
		CONNECTOR ASSEMBLY	Y			
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G&N INDICATOR CONTROL	X	1014664-011		
		PANEL ASSEMBLY	Y			
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G & N INDICATOR CONTROL	X	1015053-011		
		PANEL ASSEMBLY	Y			
-9	B	NAVIGATION BASE &	X	1899950-021		
		OPTICAL UNIT ASSY	Y			
-8	A	G & N INDICATOR CONTROL	X	1014578-021		
		PANEL ASSEMBLY	Y			
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END	X	1014606		
		CONNECTOR ASSEMBLY	Y			
-5	B	D & C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G & N INDICATOR CONTROL	X	1014578-011		NAS 9-497
		PANEL ASSEMBLY	Y			

Ⓗ REPLACES REV G WITH CHANGE

APPLICATION		APPLICATION	
NEXT ASSY	USED ON	NEXT ASSY	USED ON
		1014578-041	1014513
1014526-031	1014513	1017570-011	1017570-011
1015500-041	1016903-031	1015053-011	1015023-011
1014578-031	1014513	1014606	1014606
1014526-021	1014513	1014578-021	1014513
1015056	1015056	1014532	
1015500-031	1016903-031	1007059	
1015500-021	1016903-021	1015500-011	
1014628-011	1015023-021	1014502	
1014664-011	1015023-021	1014526-011	
1015095-011	1015023-011	1014578-011	1014513

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — - — DECIMALS ±.02 ±.005 ANGLES + — - —
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL 12-8-64
MIT APPROVAL
CHARLESTON 29 OCT 63

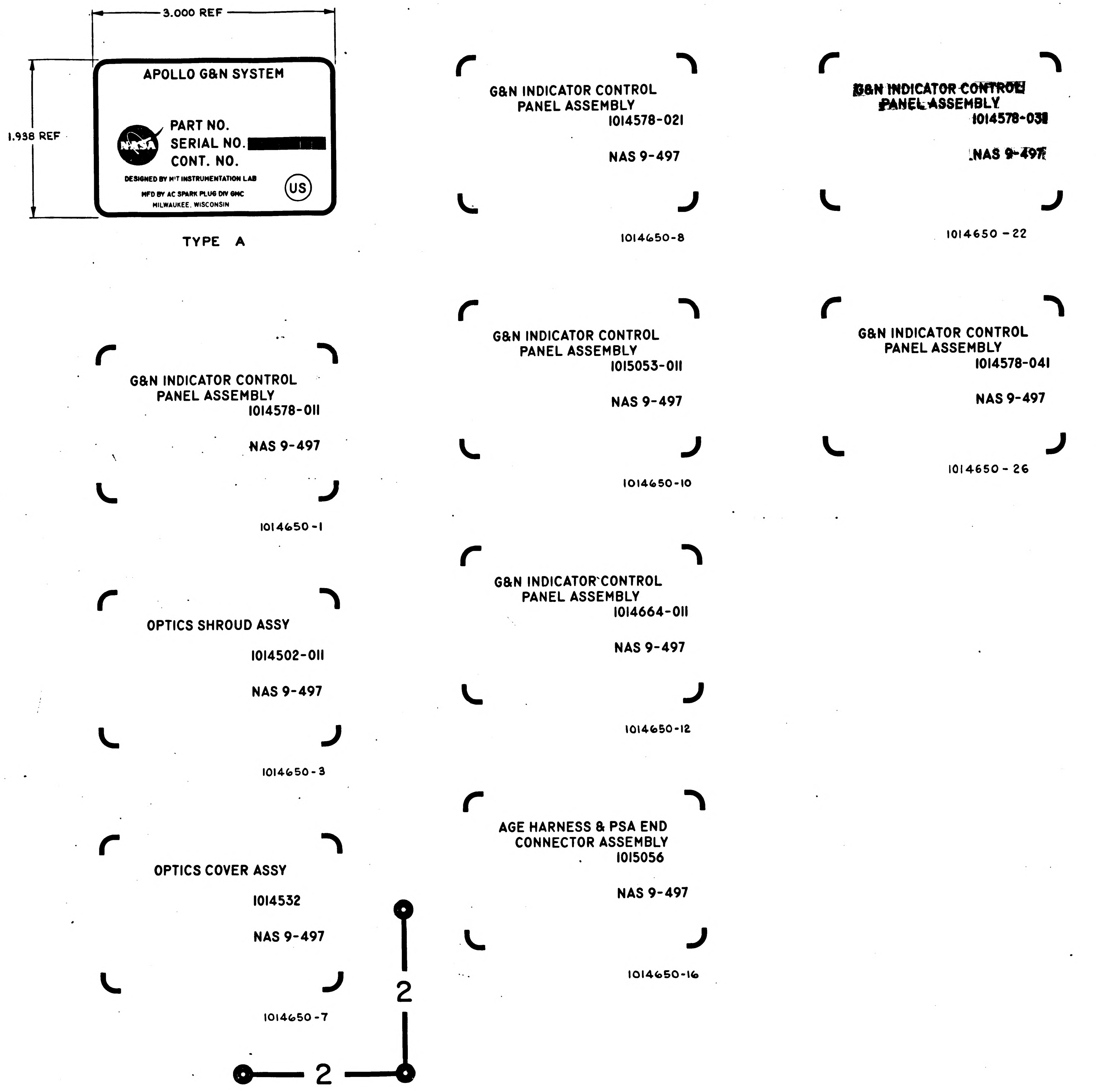
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO. | SIZE E | 1014650
SCALE AS NOTED | SHEET 1 OF 3

MIL 1077E-P

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER. TDRR 14681	3 NOV 64	JHH
H		REPLACES REV F WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE A
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014578-021
NAS 9-497
1014650-8
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014578-031
NAS 9-497
1014650-22
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014578-011
NAS 9-497
1014650-1
G&N INDICATOR CONTROL PANEL ASSEMBLY 1015053-011
NAS 9-497
1014650-10
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014578-041
NAS 9-497
1014650-26
OPTICS SHROUD ASSY
1014502-011
NAS 9-497
1014650-3
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014664-011
NAS 9-497
1014650-12
OPTICS COVER ASSY
1014532
NAS 9-497
1014650-7
AGE HARNESS & PSA END CONNECTOR ASSEMBLY 1015056
NAS 9-497
1014650-16
2
2

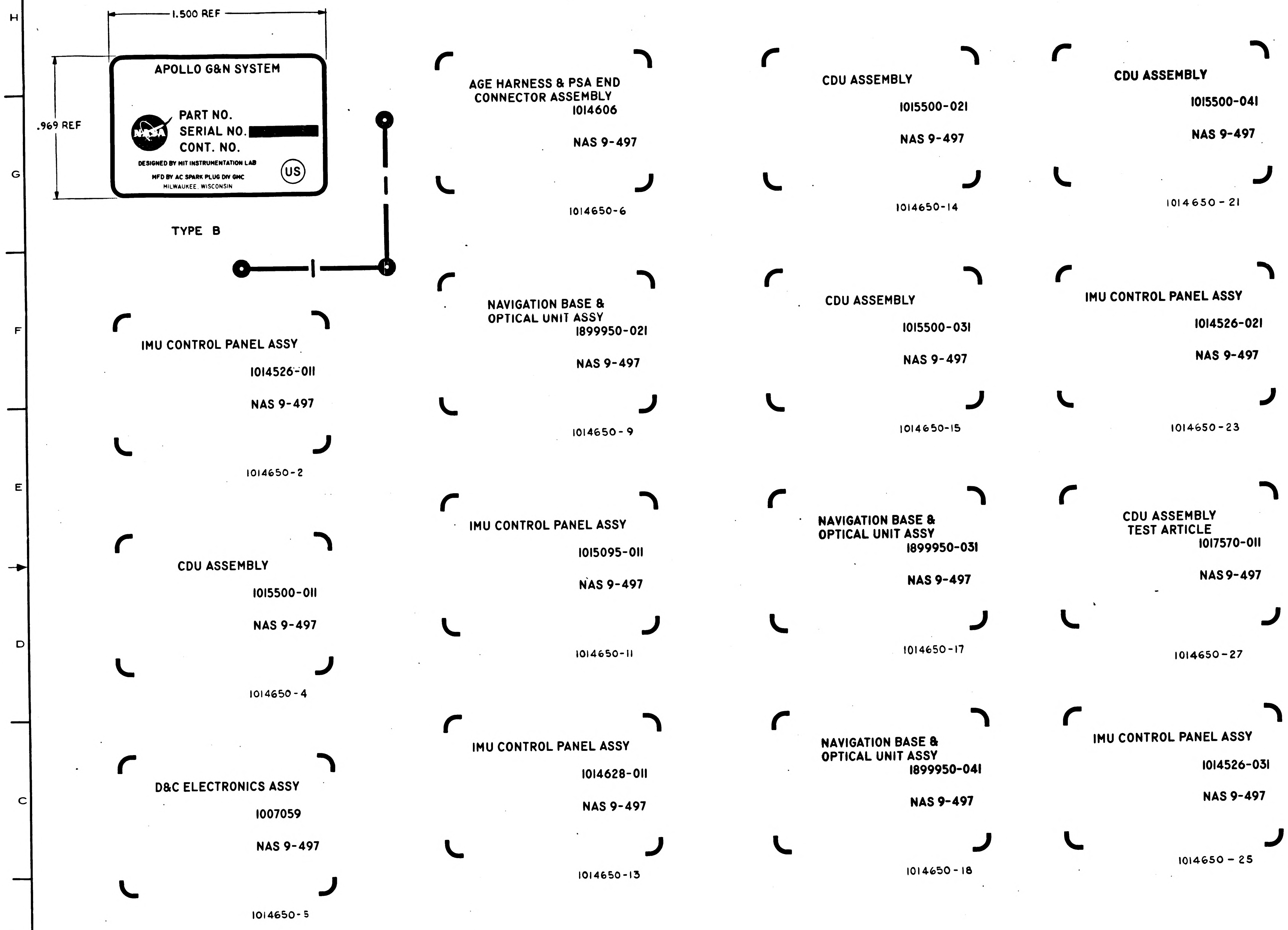
NOTES:
1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

Ⓗ REPLACES REV F WITH CHANGE

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
APPLICATION		MATERIAL —	DRAWN JOHN HEITKEMPER 29 OCT 63 CHECKED O. NIMKIE 29 OCT 63 APPROVAL C.W. MIELENZ 29 OCT 63 APPROVAL J.Kline 2/7/64 NASA APPROVAL 2-7-64 MIT APPROVAL	PLATE, IDENTIFICATION METAL FOIL
		CONTRACT NAS9-497		CODE IDENT NO — SIZE E — 1014650 SCALE 2:1 — SHEET 2 OF 3

1014820
2H 3 OF 3

REV	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.


1.500 REF
.969 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE B
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497
1014650-6
CDU ASSEMBLY
1015500-021
NAS 9-497
1014650-14
CDU ASSEMBLY
1015500-041
NAS 9-497
1014650-21
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497
1014650-9
CDU ASSEMBLY
1015500-031
NAS 9-497
1014650-15
IMU CONTROL PANEL ASSY
1014526-021
NAS 9-497
1014650-23
IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497
1014650-2
IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497
1014650-11
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-031
NAS 9-497
1014650-17
CDU ASSEMBLY TEST ARTICLE
1017570-011
NAS 9-497
1014650-27
CDU ASSEMBLY
1015500-011
NAS 9-497
1014650-4
IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497
1014650-13
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-041
NAS 9-497
1014650-18
IMU CONTROL PANEL ASSY
1014526-031
NAS 9-497
1014650 - 25
D&C ELECTRONICS ASSY
1007059
NAS 9-497
1014650-5

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

Ⓗ REPLACES REV G WITH CHANGE

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN JOHN HEITKEMPER DATE 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL D. W. MELENZ 29 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

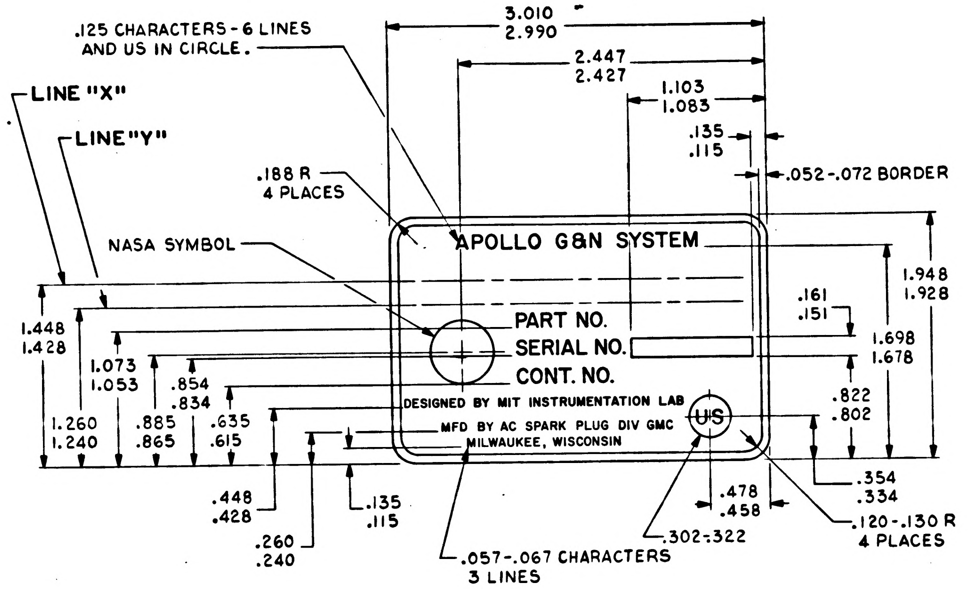
CODE IDENT NO
SIZE E
1014650
SCALE 4:1
SHEET 3 OF 3

1014650 K
2H 3 OF 3
1014820

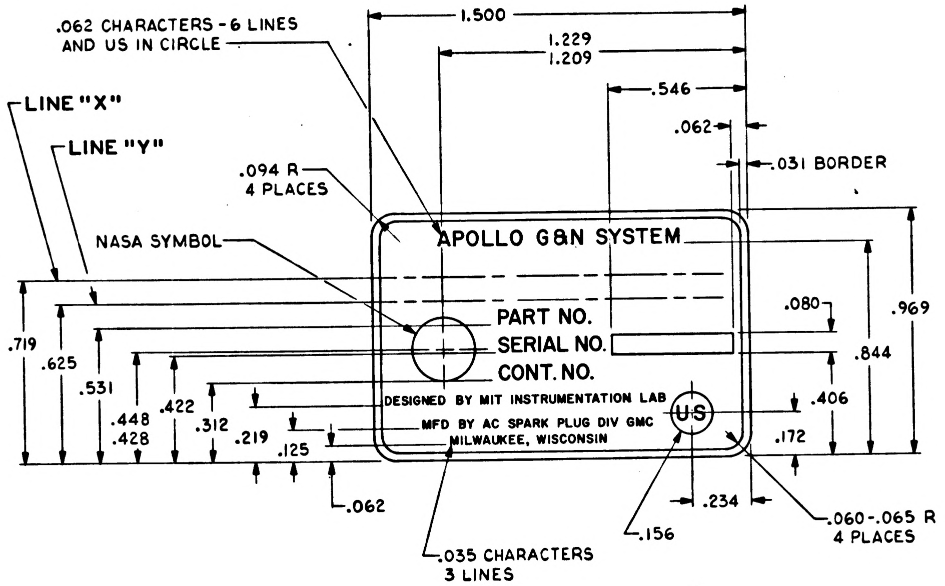
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER, WITH APPLICABLE DASH NO. AND REVISION LETTER PER ND 1002019 ON BACK OF PLATE
6. SEE SHEET 2 AND 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
Ⓜ F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.


.125 CHARACTERS - 6 LINES AND US IN CIRCLE.
LINE "X"
LINE "Y"
.188 R 4 PLACES
NASA SYMBOL
3.010 2.990
2.447 2.427
1.103 1.083
.135 .115
.052-.072 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
1.948 1.928
.161 .151
1.698 1.678
.822 .802
.354 .334
.120-.130 R 4 PLACES
.478 .458
.302-.322
.057-.067 CHARACTERS 3 LINES
1.448 1.428
1.260 1.240
1.073 1.053
.885 .865
.854 .834
.635 .615
.448 .428
.260 .240
.135 .115

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
LINE "X"
LINE "Y"
.094 R 4 PLACES
NASA SYMBOL
1.500
1.229 1.209
.546
.062
.031 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.969
.080
.844
.406
.172
.234
.060-.065 R 4 PLACES
.156
.035 CHARACTERS 3 LINES
.719
.625
.531
.448 .428
.422
.312
.219
.125
.062

TYPE B
SCALE 4:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-27	B	CDU ASSEMBLY TEST ARTICLE	X Y	1017570-011		NAS 9-497
1014650-26	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-041		NAS 9-497
1014650-25	B	IMU CONTROL PANEL ASSY	X	1014526-031		NAS 9-497
1014650-23	B	IMU CONTROL PANEL ASSY	X	1014526-021		NAS 9-497
1014650-22	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-031		NAS 9-497
1014650-21	B	CDU ASSEMBLY	X	1015500-041		NAS 9-497
1014650-19	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-		NAS 9-497
-18	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-041		NAS 9-497
-17	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-031		
-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D & C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

Ⓗ REPLACES REV G WITH CHANGE

APPLICATION		APPLICATION	
NEXT ASSY	USED ON	NEXT ASSY	USED ON
1899950	1899950	1014578-041	1014513
1014526-031	1014513	1017570-011	1017570-011
1015500-041	1016903-031	1015053-011	1015023-011
1014578-031	1014513	1014606	1014606
1014526-021	1014513	1014578-021	1014513
1015056	1015056	1014532	
1015500-031	1016903-031	1007059	
1015500-021	1016903-021	1015500-011	
1014628-011	1015023-021	1014502	
1014664-011	1015023-021	1014526-011	
1015095-011	1015023-011	1014578-011	1014513

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.02	+ —
— —	±.005	— —

DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION. GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL 12/4/64
NASA APPROVAL 12-8-64
MIT APPROVAL
CHARLESTON 29 OCT 63

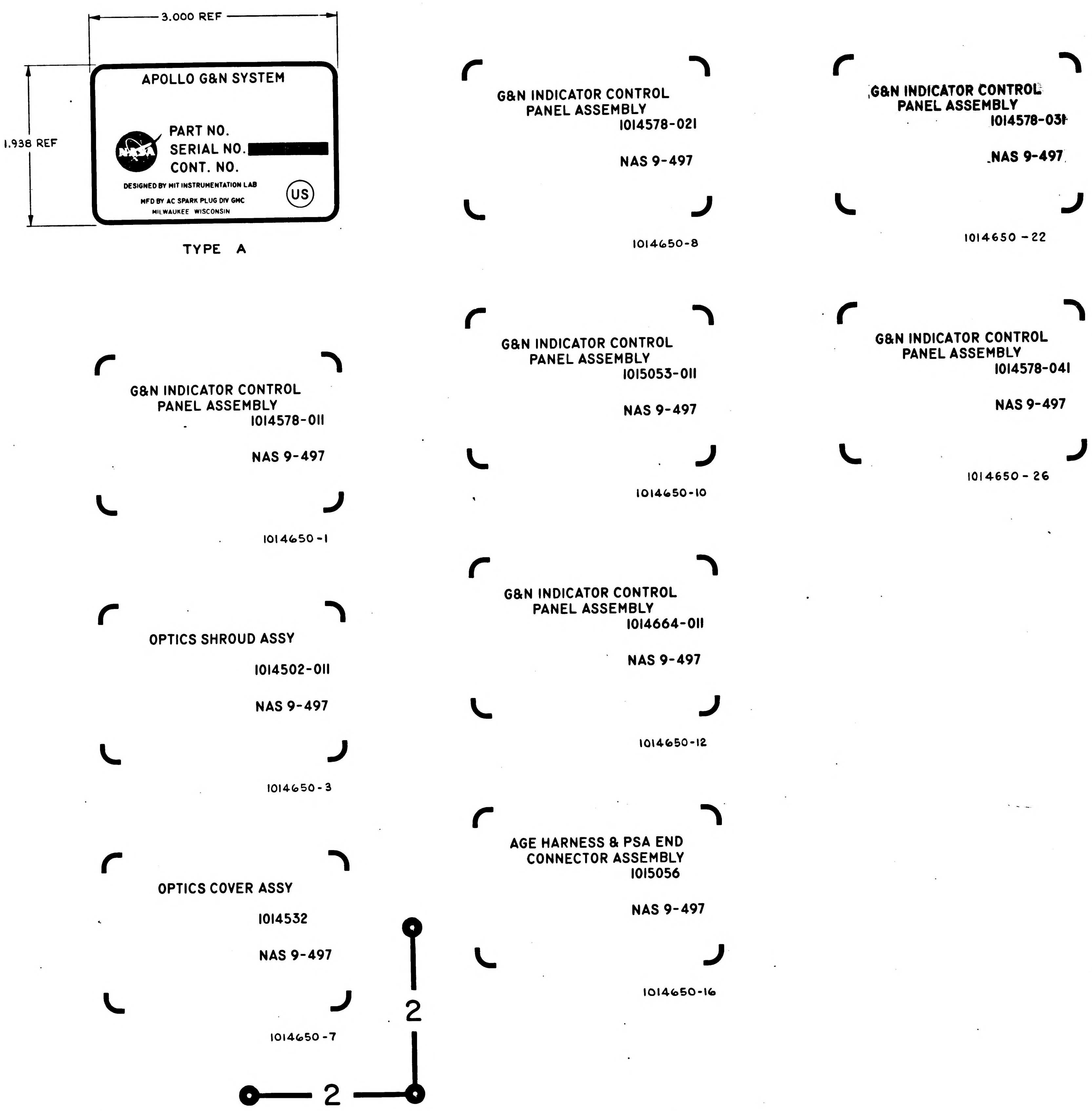
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO. SIZE E 1014650
SCALE AS NOTED SHEET 1 OF 3

1014650
SH 2 OF 3

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	3 NOV 64	JWH
H		REPLACES REV F WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISION STATUS CHANGED	5 OCT 65	A.N.


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE WISCONSIN
US
TYPE A
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014578-021
NAS 9-497
1014650-8
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014578-031
NAS 9-497
1014650-22
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014578-011
NAS 9-497
1014650-1
G&N INDICATOR CONTROL PANEL ASSEMBLY 1015053-011
NAS 9-497
1014650-10
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014578-041
NAS 9-497
1014650-26
OPTICS SHROUD ASSY
1014502-011
NAS 9-497
1014650-3
G&N INDICATOR CONTROL PANEL ASSEMBLY 1014664-011
NAS 9-497
1014650-12
OPTICS COVER ASSY
1014532
NAS 9-497
1014650-7
AGE HARNESS & PSA END CONNECTOR ASSEMBLY 1015056
NAS 9-497
1014650-16
2
2

NOTES:
1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

Ⓗ REPLACES REV F WITH CHANGE

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

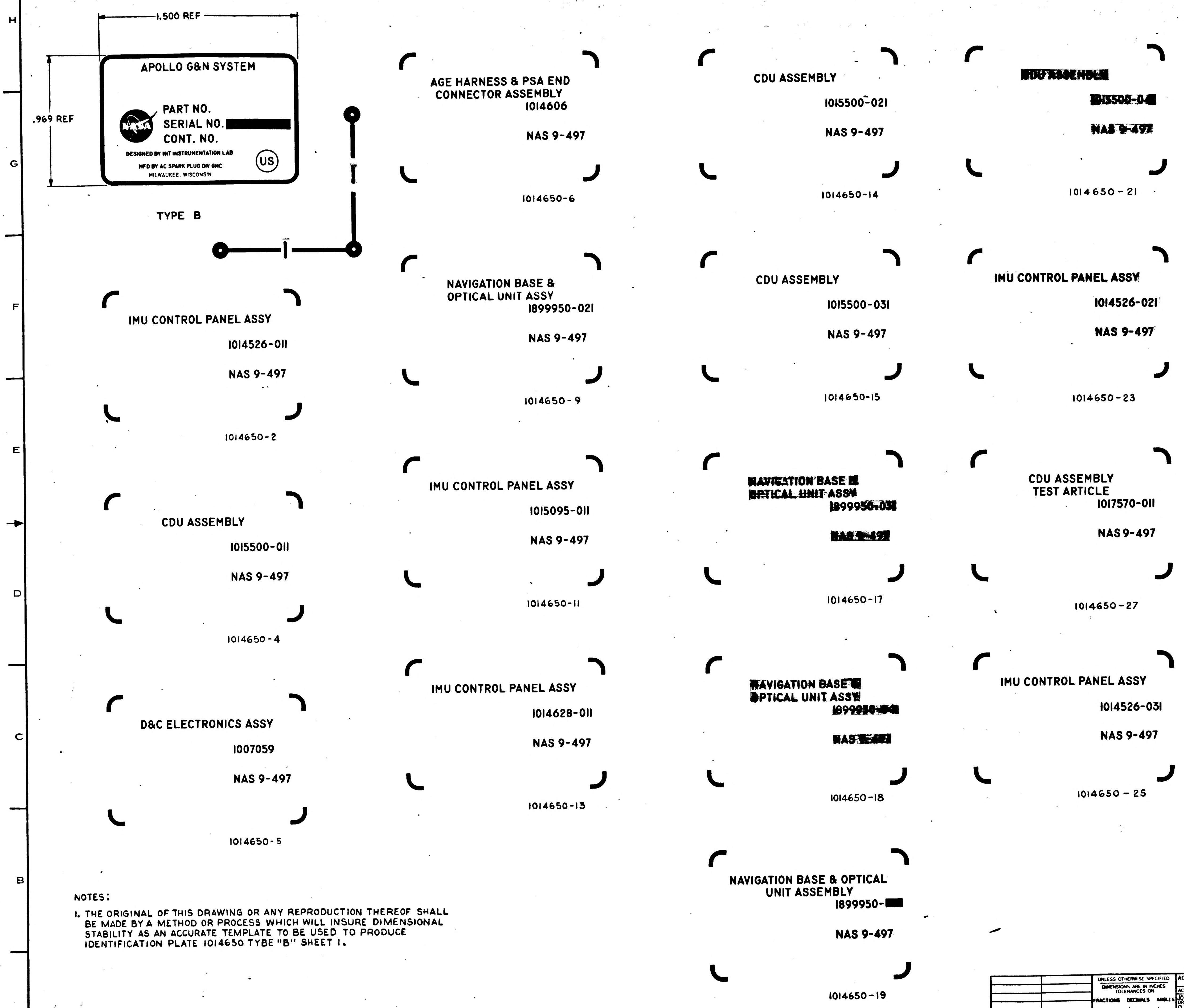
AC SPARK PLUG DIVISION GMC
MILWAUKEE, WISCONSIN
AC P/N
DRAWN JOHN HEITKEMPER DATE 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL O.W. MIELENZ 29 OCT 63
APPROVAL 2/4/64
NASA APPROVAL 12-3-64
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE 2:1
SHEET 2 OF 3

L
1014650


1.500 REF
.969 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE B
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497
1014650-6
CDU ASSEMBLY
1015500-021
NAS 9-497
1014650-14
[redacted]
1014650-21
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497
1014650-9
CDU ASSEMBLY
1015500-031
NAS 9-497
1014650-15
IMU CONTROL PANEL ASSY
1014526-021
NAS 9-497
1014650-23
IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497
1014650-2
IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497
1014650-11
[redacted]
1014650-17
CDU ASSEMBLY
TEST ARTICLE
1017570-011
NAS 9-497
1014650-27
CDU ASSEMBLY
1015500-011
NAS 9-497
1014650-4
IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497
1014650-13
[redacted]
1014650-18
IMU CONTROL PANEL ASSY
1014526-031
NAS 9-497
1014650-25
D&C ELECTRONICS ASSY
1007059
NAS 9-497
1014650-5
NAVIGATION BASE & OPTICAL UNIT ASSEMBLY
1899950-[redacted]
NAS 9-497
1014650-19

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "B" SHEET 1.

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB CW
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N. CW
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.

Ⓗ REPLACES REV G WITH CHANGE

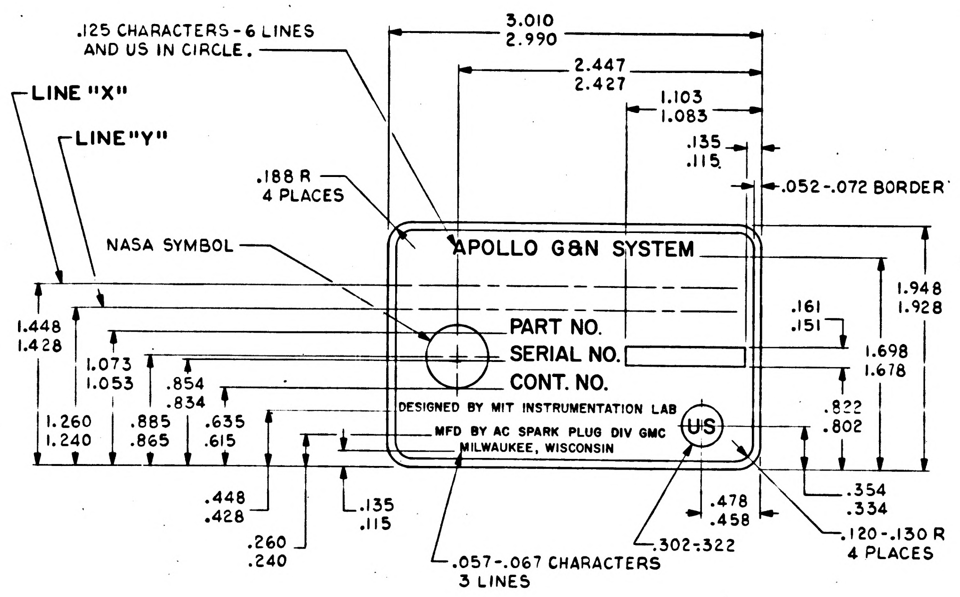
NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION		DO NOT SCALE THIS DRAWING	DRAWN JOHN HEITKEMPER 29 OCT 63 CHECKED O. NIMKIE 29 OCT 63 APPROVAL D.W. MELENZ 29 OCT 63	PLATE, IDENTIFICATION METAL FOIL
		MATERIAL —	APPROVAL 12/7/64 NASA APPROVAL W J Rhine 12-8-64 MIT APPROVAL	CODE IDENT NO. SIZE E 1014650
		CONTRACT NAS 9-497		SCALE 4:1 SHEET 3 OF 3

1014650
SH 1 OF 3

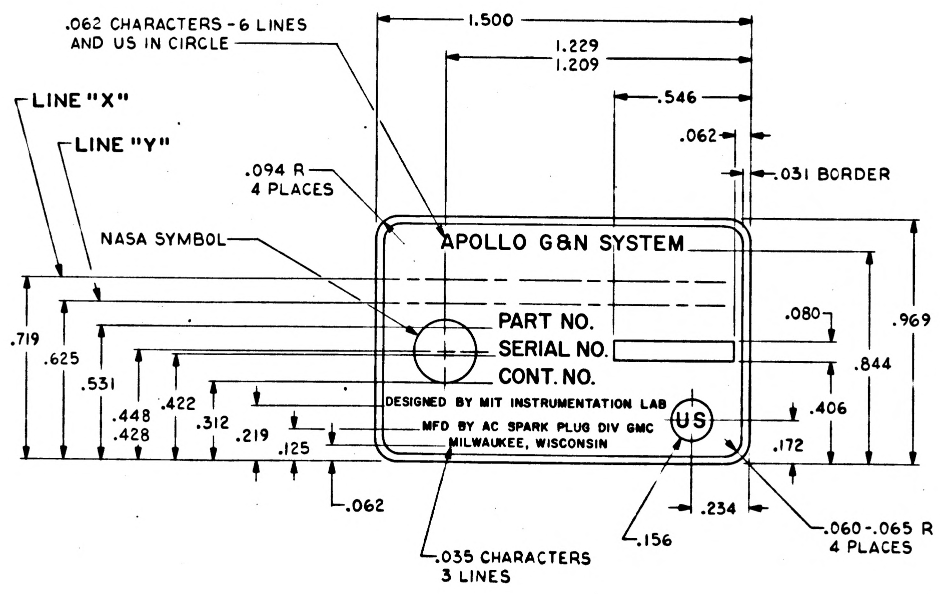
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER WITH APPLICABLE DASH NO. AND REVISION LETTER PER ND 1002019 ON BACK OF PLATE
6. SEE SHEET 2 AND 3 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.
M		REVISED PER TDRR 25798	14 FEB 66	A.N.


.125 CHARACTERS - 6 LINES AND US IN CIRCLE
3.010
2.990
2.447
2.427
1.103
1.083
.135
.115
.052-.072 BORDER
LINE "X"
LINE "Y"
.188 R 4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC MILWAUKEE, WISCONSIN
US
1.948
1.928
1.448
1.428
1.073
1.053
.161
.151
1.698
1.678
.854
.834
1.260
1.240
.885
.865
.635
.615
.822
.802
.448
.428
.135
.115
.478
.458
.354
.334
.260
.240
.302-.322
.120-.130 R 4 PLACES
.057-.067 CHARACTERS 3 LINES

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
1.500
1.229
1.209
.546
.062
.031 BORDER
LINE "X"
LINE "Y"
.094 R 4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC MILWAUKEE, WISCONSIN
US
.080
.969
.719
.625
.844
.531
.448
.428
.422
.312
.219
.125
.406
.172
.062
.234
.156
.060-.065 R 4 PLACES
.035 CHARACTERS 3 LINES

TYPE B
SCALE 4:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-28	B	CDU ASSEMBLY	X	1015500-051		NAS 9-497
1014650-27	B	CDU ASSEMBLY TEST ARTICLE	X Y	1017570-011		NAS 9-497
1014650-26	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-041		NAS 9-497
1014650-25	B	IMU CONTROL PANEL ASSY	X	1014526-031		NAS 9-497
1014650-23	B	IMU CONTROL PANEL ASSY	X	1014526-021		NAS 9-497
1014650-22	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-031		NAS 9-497
1014650-21	B	CDU ASSEMBLY	X	1015500-041		NAS 9-497
1014650-19	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-		NAS 9-497
-18	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-041		NAS 9-497
-17	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-031		
-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D & C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

Ⓗ REPLACES REV G WITH CHANGE

NEXT ASSY	USED ON	NEXT ASSY	USED ON
1015500-051	1021304-011		
1899950	1899950	1014578-041	1014513
1014526-031	1014513	1017570-011	1017570-011
1015500-041	1016903-031	1015053-011	1015023-011
1014578-031	1014513	1014606	1014606
1014526-021	1014513	1014578-021	1014513
1015056	1015056	1014532	
1015500-031	1016903-031	1007059	
1015500-021	1016903-021	1015500-011	
1014628-011	1015023-021	1014502	
1014664-011	1015023-021	1014526-011	
1015095-011	1015023-011	1014578-011	1014513
APPLICATION		APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.02	+ —
— —	±.005	— —

DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL 12-8-64
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

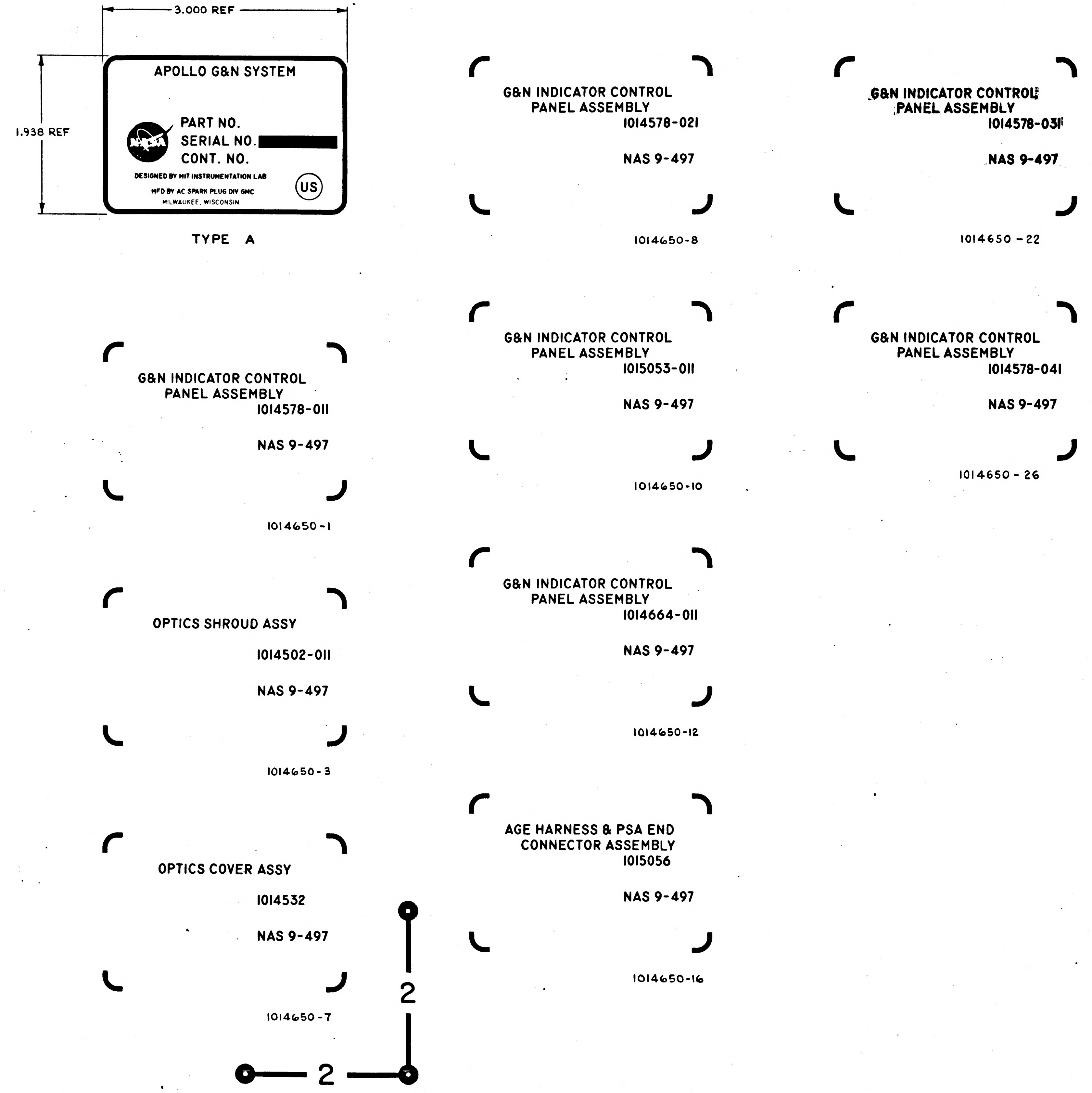
PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE AS NOTED
SHEET 1 OF 3

CHARLESTON 29 OCT 63

1014650
SH 1 OF 3

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	3 NOV 64	JHW
H		REPLACES REV F WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISION STATUS CHANGED	5 OCT 65	A.N.
M		REVISION STATUS CHANGED	14 FEB 66	A.N.


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE A
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-021
NAS 9-497
1014650-8
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-031
NAS 9-497
1014650 - 22
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-011
NAS 9-497
1014650-1
G&N INDICATOR CONTROL PANEL ASSEMBLY
1015053-011
NAS 9-497
1014650-10
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-041
NAS 9-497
1014650 - 26
OPTICS SHROUD ASSY
1014502-011
NAS 9-497
1014650-3
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014664-011
NAS 9-497
1014650-12
OPTICS COVER ASSY
1014532
NAS 9-497
1014650-7
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1015056
NAS 9-497
1014650-16
2
2

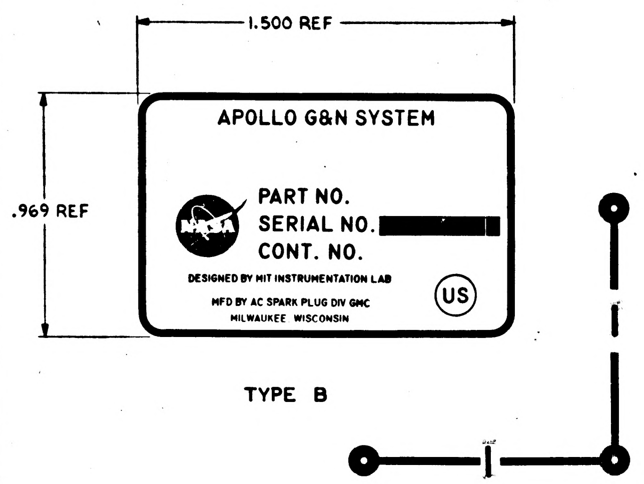
NOTES:
1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

Ⓗ REPLACES REV F WITH CHANGE

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN DRAWN JOHN HEITKEMPER DATE 29 OCT 63 CHECKED O. NIMKIE 29 OCT 63 APPROVAL O.W. MIELENZ 29 OCT 63 APPROVAL 2/4/64	MANNED SPACECRAFT CENTER HOUSTON TEXAS PLATE, IDENTIFICATION METAL FOIL
APPLICATION		MATERIAL —	NASA APPROVAL 12-5-64 MIT APPROVAL	CODE IDENT NO SIZE E 1014650
		CONTRACT NAS9-497		SCALE 2:1 SHEET 2 OF 3

1014650 SH 2 OF 3

1014650 M



TYPE B

AGE HARNESS & PSA END
CONNECTOR ASSEMBLY
1014606
NAS 9-497

1014650-6

CDU ASSEMBLY
1015500-021
NAS 9-497

1014650-14

CDU ASSEMBLY
1015500-041
NAS 9-497

1014650-21

IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497

1014650-2

NAVIGATION BASE &
OPTICAL UNIT ASSY
1899950-021
NAS 9-497

1014650-9

CDU ASSEMBLY
1015500-031
NAS 9-497

1014650-15

IMU CONTROL PANEL ASSY
1014526-021
NAS 9-497

1014650-23

CDU ASSEMBLY
1015500-011
NAS 9-497

1014650-4

IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497

1014650-11

NAVIGATION BASE &
OPTICAL UNIT ASSY
1899950-031
NAS 9-497

1014650-17

CDU ASSEMBLY
TEST ARTICLE
1017570-011
NAS 9-497

1014650-27

D&C ELECTRONICS ASSY
1007059
NAS 9-497

1014650-5

IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497

1014650-13

NAVIGATION BASE &
OPTICAL UNIT ASSY
1899950-041
NAS 9-497

1014650-18

IMU CONTROL PANEL ASSY
1014526-031
NAS 9-497

1014650-25

NAVIGATION BASE & OPTICAL
UNIT ASSEMBLY
1899950-[redacted]
NAS 9-497

1014650-19

CDU ASSEMBLY
1015500-051
NAS 9-497

1014650-28

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

(H) REPLACES REV G WITH CHANGE

REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB CW
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N. CW
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.
M		REVISED PER TDRR 25798	14 FEB 66	A.N.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN JOHN HEITKEMPER DATE 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL D. W. MELENZ 29 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE 4:1
SHEET 3 OF 3

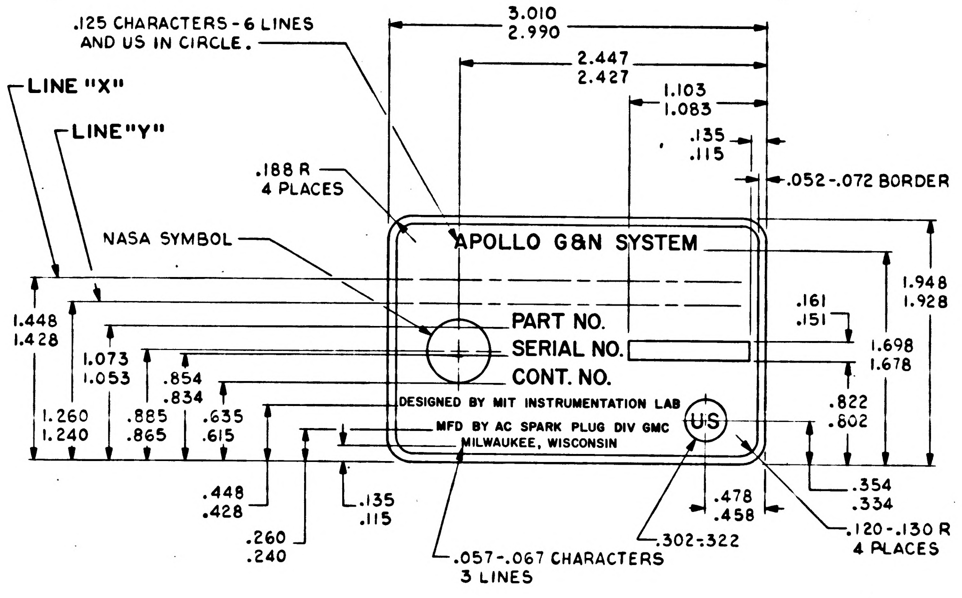
REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB CW
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N. CW
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.
M		REVISED PER TDRR 25798	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	16 FEB 66	A N
P		REVISED PER TDRR 26173	22 FEB 66	A.N.

NOTES:

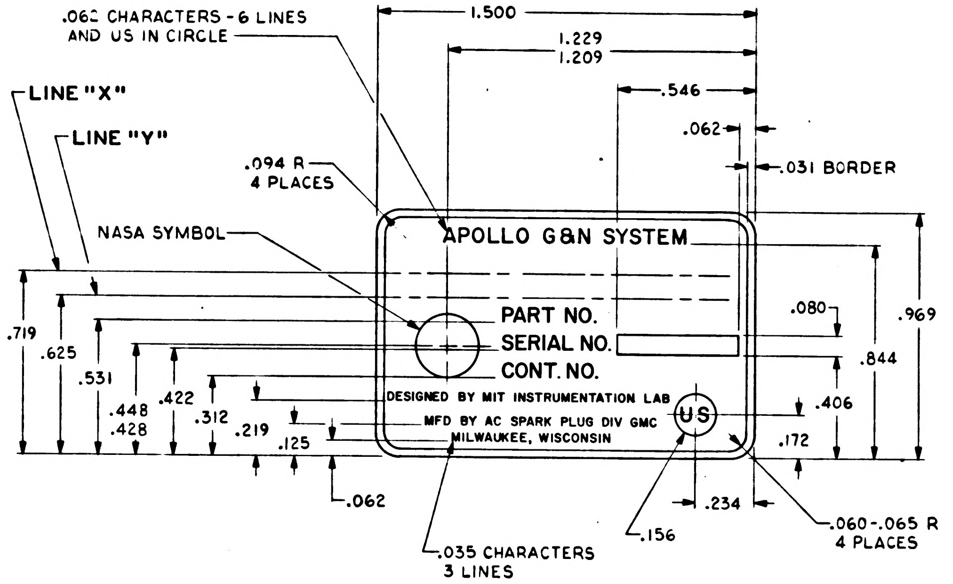
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER WITH APPLICABLE DASH NO. AND REVISION LETTER PER ND 1002019 ON BACK OF PLATE
6. SEE SHEET 2, 3, AND 4 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.

(CONTINUED ON SHEET 4)

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-28	B	CDU ASSEMBLY	X	1015500-051		NAS 9-497
1014650-27	B	CDU ASSEMBLY TEST ARTICLE	X Y	1017570-011		NAS 9-497
1014650-26	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-041		NAS 9-497
1014650-25	B	IMU CONTROL PANEL ASSY	X	1014526-031		NAS 9-497
1014650-23	B	IMU CONTROL PANEL ASSY	X	1014526-021		NAS 9-497
1014650-22	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-031		NAS 9-497
1014650-21	B	CDU ASSEMBLY	X	1015500-041		NAS 9-497
1014650-19	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-		NAS 9-497
-18	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-041		NAS 9-497
-17	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-031		
-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D & C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497


.125 CHARACTERS - 6 LINES AND US IN CIRCLE
LINE "X"
LINE "Y"
.188 R 4 PLACES
NASA SYMBOL
3.010 2.990
2.447 2.427
1.103 1.083
.135 .115
.052-.072 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
1.948 1.928
1.698 1.678
.161 .151
.822 .802
.354 .334
1.448 1.428
1.073 1.053
.854 .834
1.260 1.240
.885 .865
.635 .615
.448 .428
.260 .240
.135 .115
.478 .458
.302-.322
.057-.067 CHARACTERS 3 LINES
.120-.130 R 4 PLACES

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
LINE "X"
LINE "Y"
.094 R 4 PLACES
NASA SYMBOL
1.500
1.229 1.209
.546
.062
.031 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
.080
.969
.844
.406
.172
.719
.625
.531
.448 .428
.422
.312
.219
.125
.062
.234
.156
.035 CHARACTERS 3 LINES
.060-.065 R 4 PLACES

TYPE B
SCALE 4:1

		1015500-051	1021304-011		
		1899950	1899950	1014578-041	1014513
		1014526-031	1014513	1017570-011	1017570-011
1015500-061	1016903-051	1015500-041	1016903-031	1015053-011	1015023-011
1015053-021	1015023	1014578-031	1014513	1014606	1014606
1014664-021	1015023	1014526-021	1014513	1014578-021	1014513
1014502-021	1015023	1015056	1015056	1014532	
1014628-021	1015023	1015500-031	1016903-031	1007059	
NEXT ASSY	USED ON	1015500-021	1016903-021	1015500-011	
APPLICATION		1014628-011	1015023-021	1014502	
		1014664-011	1015023-021	1014526-011	
		1015095-011	1015023-011	1014578-011	1014513
		NEXT ASSY	USED ON	NEXT ASSY	USED ON
		APPLICATION		APPLICATION	

Ⓗ REPLACES REV G WITH CHANGE

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.02	+ —
— —	±.005	— —

DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

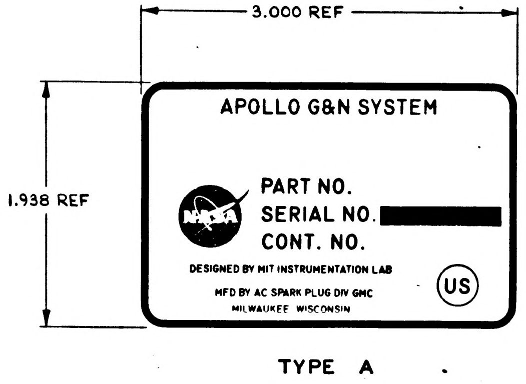
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL 12-8-64
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE AS NOTED
SHEET 1 OF 4

CHARLESTON 29 OCT 63



TYPE A

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-021
NAS 9-497

1014650-8

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-031
NAS 9-497

1014650 -22

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-011
NAS 9-497

1014650-1

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1015053-011
NAS 9-497

1014650-10

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-041
NAS 9-497

1014650 - 26

IMU CONTROL PANEL ASSY
1014628-021
NAS 9-497

1014650 -32

OPTICS SHROUD ASSY
1014502-011
NAS 9-497

1014650-3

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014664-011
NAS 9-497

1014650-12

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1015053-021
NAS 9-497

1014650-29

OPTICS COVER ASSY
1014532
NAS 9-497

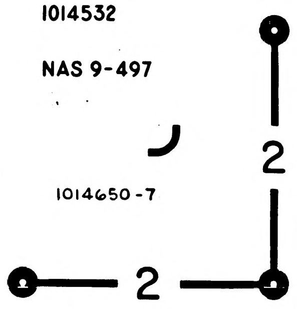
1014650-7

AGE HARNESS & PSA END
CONNECTOR ASSEMBLY
1015056
NAS 9-497

1014650-16

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014664-021
NAS 9-497

1014650-30



OPTICS SHROUD ASSY
1014502-021
NAS 9-497

1014650-31

NOTES:
1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	3 NOV 64	JHH
H		REPLACES REV F WITH CHANGE PER TDRR 17038	11 MAR 65	A.N. CW
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISION STATUS CHANGED	5 OCT 65	A.N.
M		REVISION STATUS CHANGED	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	16 FEB 66	A.N.
P		REVISION STATUS CHANGED	22 FEB 66	A.N.

Ⓗ REPLACES REV F WITH CHANGE

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN JOHN HEITKEMPER DATE 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL O.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL 2-3-66
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

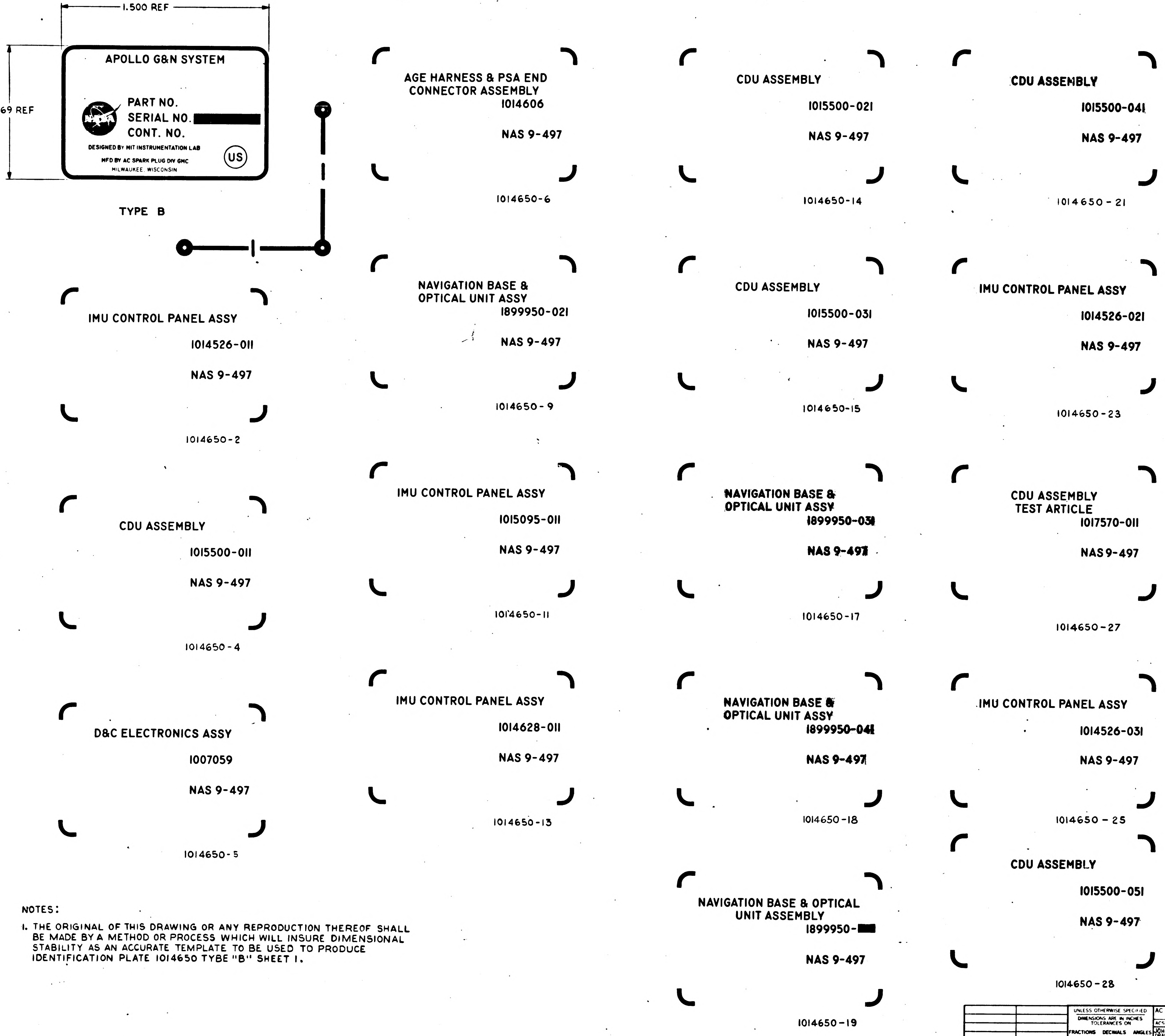
PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE 2:1
SHEET 2 OF 4

1014650 B P

1014650 SH 3 OF 4

SYM	ZONE	DESCRIPTION	DATE	APPROVED
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.
M		REVISED PER TDRR 25798	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	16 FEB 66	A.N.
P		REVISION STATUS CHANGED	22 FEB 66	A.N.


1.500 REF
.969 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE B
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497
1014650-6
CDU ASSEMBLY
1015500-021
NAS 9-497
1014650-14
CDU ASSEMBLY
1015500-041
NAS 9-497
1014650-21
IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497
1014650-2
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497
1014650-9
CDU ASSEMBLY
1015500-031
NAS 9-497
1014650-15
IMU CONTROL PANEL ASSY
1014526-021
NAS 9-497
1014650-23
CDU ASSEMBLY
1015500-011
NAS 9-497
1014650-4
IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497
1014650-11
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-031
NAS 9-497
1014650-17
CDU ASSEMBLY TEST ARTICLE
1017570-011
NAS 9-497
1014650-27
D&C ELECTRONICS ASSY
1007059
NAS 9-497
1014650-5
IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497
1014650-13
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-041
NAS 9-497
1014650-18
IMU CONTROL PANEL ASSY
1014526-031
NAS 9-497
1014650-25
CDU ASSEMBLY
1015500-051
NAS 9-497
1014650-28
NAVIGATION BASE & OPTICAL UNIT ASSEMBLY
1899950-[redacted]
NAS 9-497
1014650-19

NOTES:

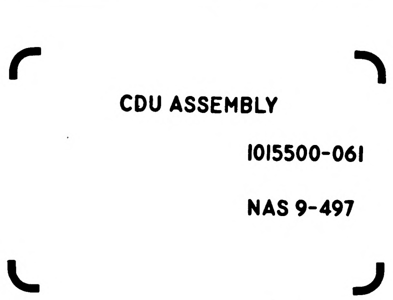
1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

Ⓗ REPLACES REV G WITH CHANGE

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± — ± —	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
APPLICATION		DO NOT SCALE THIS DRAWING	DRAWN JOHN HEITKEMPER DATE 29 OCT 63 CHECKED O. NIMKIE 29 OCT 63 APPROVAL D.W. MELENZ 29 OCT 63 APPROVAL	PLATE, IDENTIFICATION METAL FOIL
		MATERIAL —	NASA APPROVAL	CODE IDENT NO · SIZE E · 1014650
		CONTRACT NAS 9-497	MIT APPROVAL	SCALE 4:1 · SHEET 3 OF 4

1014650 SH 3 OF 4

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
N		THIS SHEET ADDED PER TDRR 26168 (Reissued #1/66)		16FEB 66	A.N. an
P		REVISED PER TDRR 26173		22FEB 66	A.N. an



1014650-33
SCALE 4:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-33	B	CDU ASSEMBLY	X	1015500-061		NAS 9-497
-32	A	IMU CONTROL PANEL ASSY	X	1014628-021		
-31	A	OPTICS SHROUD ASSY	X	1014502-021		
-30	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-021		
1014650-29		G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-021		NAS 9-497

(N1) THIS SHEET ADDED

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN Art Nikurs DATE 16 FEB 66
CHECKED 21 FEB 66
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

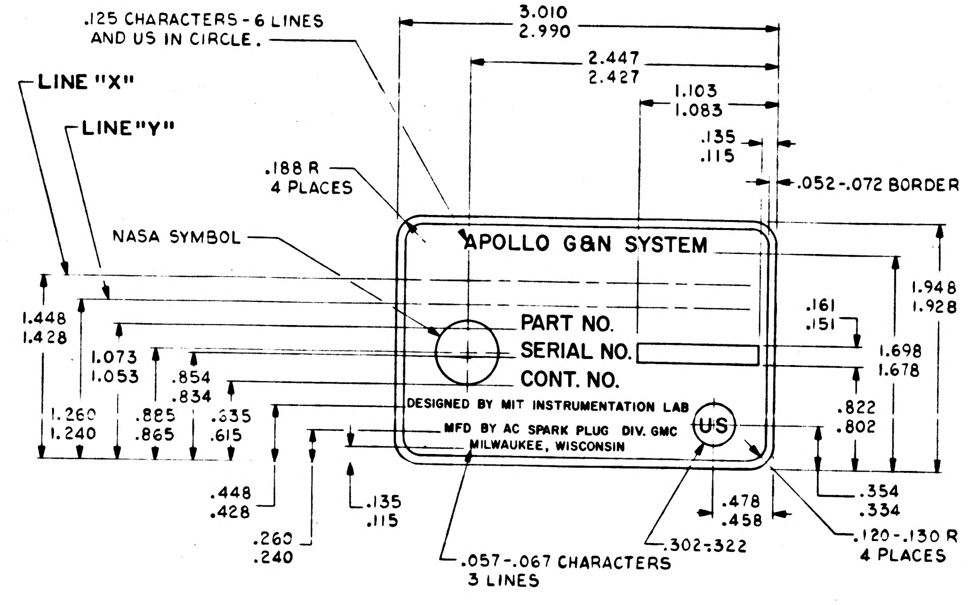
CODE IDENT NO
SIZE E
1014650
SCALE AS NOTED
SHEET 4 OF 4

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER WITH APPLICABLE DASH NO. AND REVISION LETTER PER ND 1002019 ON BACK OF PLATE
6. SEE SHEET 2, 3, AND 4 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.

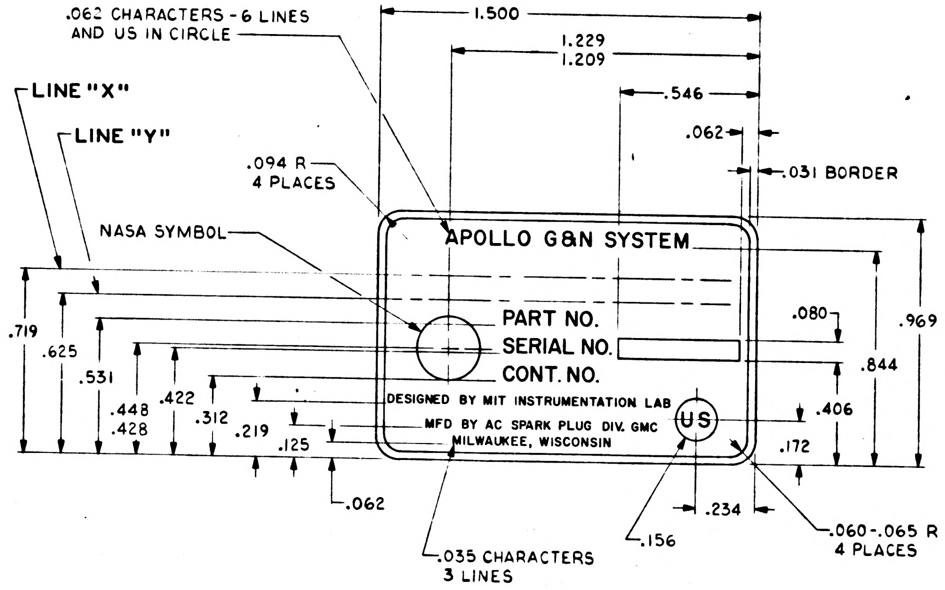
REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV E WITH CHANGE PER TDRR 1463	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB CW
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N. CW
J		REVISED PER TDRR 20428	14 JUL 65	A.N. CW
K		REVISED PER TDRR 21648	23 AUG 65	A.N. CW
L		REVISED PER TDRR 22742	5 OCT 65	A.N. CW
M		REVISED PER TDRR 25798	14 FEB 66	A.N. CW
N		REVISED PER TDRR 26168	16 FEB 66	A.N. CW
P		REVISED PER TDRR 26173	FEB 66	CW
R		REVISION STATUS CHANGED	6-APR 66	J.E.G.



.125 CHARACTERS - 6 LINES AND US IN CIRCLE.
3.010
2.990
2.447
2.427
1.103
1.083
.135
.115
.052-.072 BORDER
LINE "X"
LINE "Y"
.188 R
4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV. GMC
MILWAUKEE, WISCONSIN
US
1.948
1.928
.161
.151
1.698
1.678
.822
.802
1.448
1.428
1.073
1.053
.854
.834
1.260
1.240
.885
.865
.635
.615
.448
.428
.135
.115
.260
.240
.478
.458
.302-.322
.354
.334
.120-.130 R
4 PLACES
.057-.067 CHARACTERS
3 LINES

TYPE A
SCALE 2:1



.062 CHARACTERS - 6 LINES AND US IN CIRCLE
1.500
1.229
1.209
.546
.062
.031 BORDER
LINE "X"
LINE "Y"
.094 R
4 PLACES
NASA SYMBOL
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV. GMC
MILWAUKEE, WISCONSIN
US
.080
.969
.844
.406
.172
.719
.625
.531
.448
.428
.422
.312
.219
.125
.062
.234
.156
.060-.065 R
4 PLACES
.035 CHARACTERS
3 LINES

TYPE B
SCALE 4:1

(CONTINUED ON SHEET 4)

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-28	B	CDU ASSEMBLY	X	1015500-051		NAS 9-497
1014650-27	B	CDU ASSEMBLY TEST ARTICLE	X Y	1017570-011		NAS 9-497
1014650-26	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-041		NAS 9-497
1014650-25	B	IMU CONTROL PANEL ASSY	X	1014526-031		NAS 9-497
1014650-23	B	IMU CONTROL PANEL ASSY	X	1014526-021		NAS 9-497
1014650-22	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-031		NAS 9-497
1014650-21	B	CDU ASSEMBLY	X	1015500-041		NAS 9-497
1014650-19	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-		NAS 9-497
-18	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-041		NAS 9-497
-17	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-031		
-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D & C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

APPLICATION

NEXT ASSY	USED ON	NEXT ASSY	USED ON	NEXT ASSY	USED ON
		1015500-051	1021304-011		
		1899950	1899950	1014578-041	1014513
		1014526-031	1014513	1017570-011	1017570-011
1015500-061	1016903-051	1015500-041	1016903-031	1015053-011	1015023-011
1015053-021	1015023	1014578-031	1014513	1014606	1014606
1014664-021	1015023	1014526-021	1014513	1014578-021	1014513
1014502-021	1015023	1015056	1015056	1014532	
1014628-021	1015023	1015500-031	1016903-031	1007059	
		1015500-021	1016903-021	1015500-011	
		1014628-011	1015023-021	1014502	
		1014664-011	1015023-021	1014526-011	
		1015095-011	1015023-011	1014578-011	1014513

Ⓗ REPLACES REV G WITH CHANGE

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +— −—
DECIMALS ±.02 ±.005
ANGLES +— −—
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

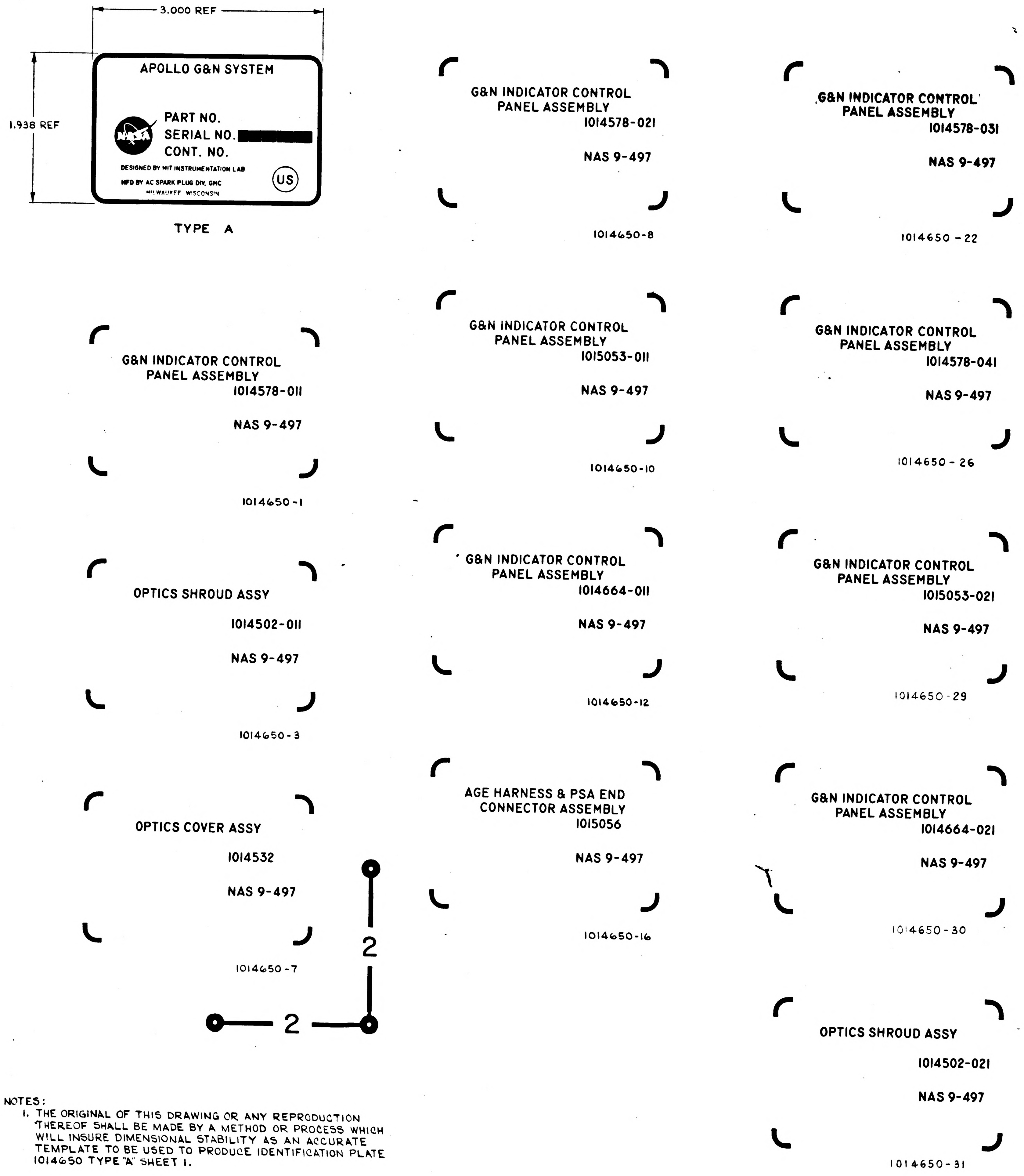
AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL 2-8-64
MIT APPROVAL
CHARLESTON 29 OCT 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE AS NOTED
SHEET 1 OF 4

	ZONE	REVISIONS	DATE	APPD
F		REPLACES REV E WITH CHANGE PER TDRR 14681	3 NOV 64	JHH
H		REPLACES REV F WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISION STATUS CHANGED	5 OCT 65	A.N.
M		REVISION STATUS CHANGED	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	16 FEB 66	A.N.
P		REVISION STATUS CHANGED	22 FEB 66	A.N.
R		REVISED PER TDRR 27393	6-APR 66	A.N.


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV. GMC
MILWAUKEE WISCONSIN
US
TYPE A
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-021
NAS 9-497
1014650-8
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-031
NAS 9-497
1014650 - 22
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-011
NAS 9-497
1014650-1
G&N INDICATOR CONTROL PANEL ASSEMBLY
1015053-011
NAS 9-497
1014650-10
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014578-041
NAS 9-497
1014650 - 26
OPTICS SHROUD ASSY
1014502-011
NAS 9-497
1014650-3
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014664-011
NAS 9-497
1014650-12
G&N INDICATOR CONTROL PANEL ASSEMBLY
1015053-021
NAS 9-497
1014650-29
OPTICS COVER ASSY
1014532
NAS 9-497
1014650-7
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1015056
NAS 9-497
1014650-16
G&N INDICATOR CONTROL PANEL ASSEMBLY
1014664-021
NAS 9-497
1014650-30
2
2
OPTICS SHROUD ASSY
1014502-021
NAS 9-497
1014650-31

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

Ⓗ REPLACES REV F WITH CHANGE

FRACTIONS	+ — − —
DECIMALS	+ — − —
ANGLES	+ — − —
MATERIAL	—
CONTRACT	NAS9-497
NEXT ASSY	
USED ON	
APPLICATION	

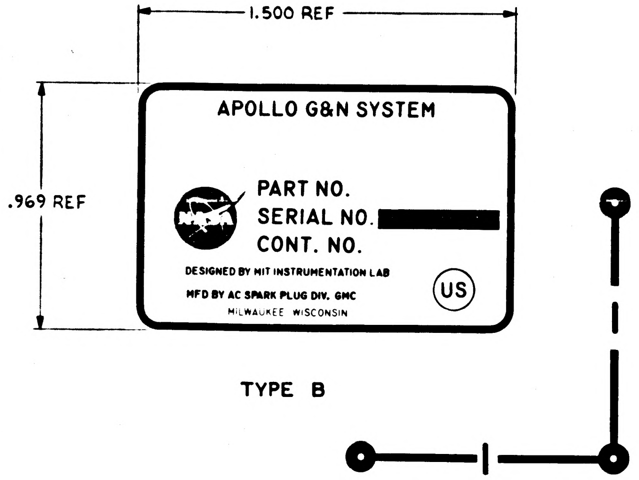
AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN

JOHN HEITKEMPER 29 OCT 63
O. NIMKIE 29 OCT 63
O.W. MIELENZ 29 OCT 63
NASA APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

SIZE E 1014650
SCALE 2:1
SHEET 2 OF 4



TYPE B

AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497

1014650-6

CDU ASSEMBLY
1015500-021
NAS 9-497

1014650-14

CDU ASSEMBLY
1015500-041
NAS 9-497

1014650-21

IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497

1014650-2

NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497

1014650-9

CDU ASSEMBLY
1015500-031
NAS 9-497

1014650-15

IMU CONTROL PANEL ASSY
1014526-021
NAS 9-497

1014650-23

CDU ASSEMBLY
1015500-011
NAS 9-497

1014650-4

IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497

1014650-11

NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-031
NAS 9-497

1014650-17

CDU ASSEMBLY TEST ARTICLE
1017570-011
NAS 9-497

1014650-27

D&C ELECTRONICS ASSY
1007059
NAS 9-497

1014650-5

IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497

1014650-13

NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-041
NAS 9-497

1014650-18

IMU CONTROL PANEL ASSY
1014526-031
NAS 9-497

1014650-25

IMU CONTROL PANEL ASSY
1014628-021
NAS 9-497

1014650-32

NAVIGATION BASE & OPTICAL UNIT ASSEMBLY
1899950-[redacted]
NAS 9-497

1014650-19

CDU ASSEMBLY
1015500-051
NAS 9-497

1014650-28

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

Ⓗ REPLACES REV G WITH CHANGE

REVISIONS

		DESCRIPTION	DATE	APPR
F		REPLACES REV F WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	GB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.
M		REVISED PER TDRR 25798	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	16 FEB 66	A.N.
P		REVISION STATUS CHANGED	FEB 66	A.N.
R		REVISED PER TDRR 27393	6 APR 66	

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

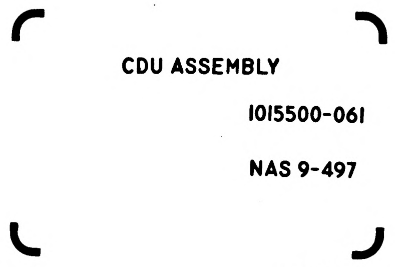
AC SPARK PLUG DIVISION GMC
MILWAUKEE, WISCONSIN
DRAWN JOHN HEITKEMPER 29 OCT 63
CHECKED D. NIMKIE 29 OCT 63
APPROVAL D. WELENZ 29 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE 4:1
SHEET 3 OF 4

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
N		THIS SHEET ADDED PER TDRR 26168 (Reissued [illegible])		16 FEB 66	A N
P		REVISED PER TDRR 26173		22 FEB 66	A N
R		REVISED PER TDRR 27393		6-APR 66	H.I.N. J.E.G



1014650-33
SCALE: 4:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650 - 33	B	CDU ASSEMBLY	X	1015500-061		NAS 9-497
- 32	B	IMU CONTROL PANEL ASSY	X	1014628 - 021		
- 31	A	OPTICS SHROUD ASSY	X	1014502-021		
- 30	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664 - 021		
1014650 - 29		G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053 - 021		NAS 9 - 497

(N1) THIS SHEET ADDED

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9 - 497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP FN
DRAWN Art Nikurs DATE 16 FEB 66
CHECKED 21 FEB 66
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

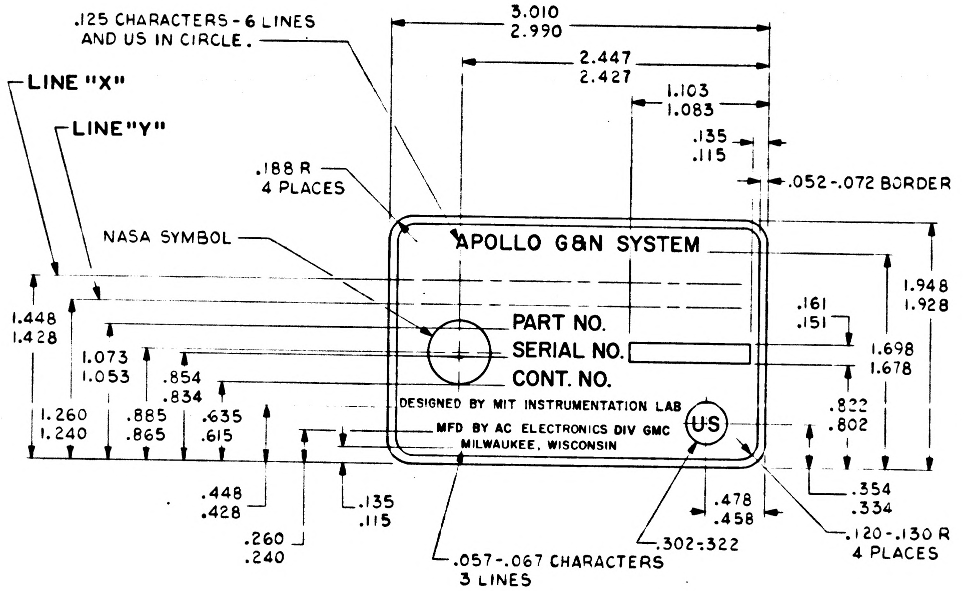
CODE IDENT NO | SIZE E | 1014650
SCALE AS NOTED | SHEET 4 OF 4

NOTES:

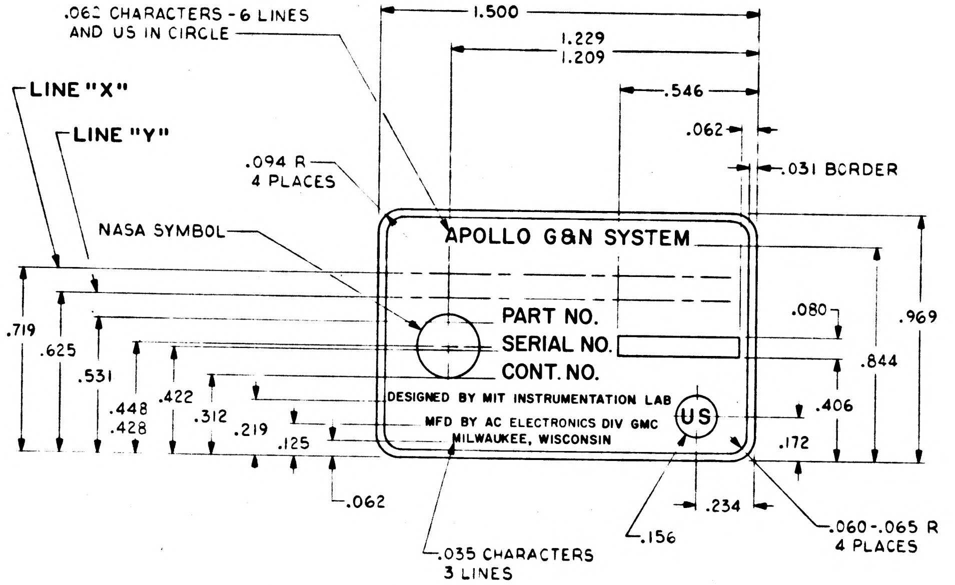
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER WITH APPLICABLE DASH NO AND REVISION LETTER PER ND I [illegible] ON BACK OF PLATE
6. SEE SHEET 2, 3, AND 4 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.

REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N. CW
J		REVISED PER TDRR 20428	14 JUL 65	A.N. CW
K		REVISED PER TDRR 21648	23 AUG 65	A.N. CW
L		REVISED PER TDRR 22742	5 OCT 65	A.N. CW
M		REVISED PER TDRR 25798	14 FEB 66	A.N. CW
N		REVISED PER TDRR 26168	16 FEB 66	A.N. CW
P		REVISED PER TDRR 26173	22 FEB 66	A.N. CW
R		REVISION STATUS CHANGED	6-APR 66	A.J.N. J.E.G.
S		REVISED PER TDRR 27456	6-APR 66	A.J.N. J.E.G.


.125 CHARACTERS - 6 LINES AND US IN CIRCLE.
LINE "X"
LINE "Y"
.188 R 4 PLACES
NASA SYMBOL
3.010 2.990
2.447 2.427
1.103 1.083
.135 .115
.052-.072 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC ELECTRONICS DIV GMC
MILWAUKEE, WISCONSIN
US
1.948 1.928
.161 .151
1.698 1.678
.822 .802
1.448 1.428
1.073 1.053
.854 .834
1.260 1.240
.885 .865
.635 .615
.448 .428
.260 .240
.135 .115
.057-.067 CHARACTERS 3 LINES
.302-.322
.478 .458
.354 .334
.120-.130 R 4 PLACES

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES AND US IN CIRCLE
LINE "X"
LINE "Y"
.094 R 4 PLACES
NASA SYMBOL
1.500
1.229 1.209
.546
.062
.031 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC ELECTRONICS DIV GMC
MILWAUKEE, WISCONSIN
US
.080
.969
.844
.406
.172
.719
.625
.531
.448 .428
.422
.312
.219
.125
.062
.035 CHARACTERS 3 LINES
.156
.234
.060-.065 R 4 PLACES

TYPE B
SCALE 4:1

(CONTINUED ON SHEET 4)

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-28	B	CDU ASSEMBLY	X	1015500-051		NAS 9-497
1014650-27	B	CDU ASSEMBLY TEST ARTICLE	X Y	1017570-011		NAS 9-497
1014650-26	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-041		NAS 9-497
1014650-25	B	IMU CONTROL PANEL ASSY	X	1014526-031		NAS 9-497
1014650-23	B	IMU CONTROL PANEL ASSY	X	1014526-021		NAS 9-497
1014650-22	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-031		NAS 9-497
1014650-21	B	CDU ASSEMBLY	X	1015500-041		NAS 9-497
1014650-19	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-		NAS 9-497
-18	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-041		NAS 9-497
-17	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-031		
-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D & C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

NEXT ASSY	USED ON	NEXT ASSY	USED ON	NEXT ASSY	USED ON
		1015500-051	1021304-011		
		1899950	1899950	1014578-041	1014513
		1014526-031	1014513	1017570-011	1017570-011
1015500-061	1016903-051	1015500-041	1016903-031	1015053-011	1015023-011
1015053-021	1015023	1014578-031	1014513	1014606	1014606
1014664-021	10 5023	1014526-021	1014513	1014578-021	1014513
1014502-021	1015023	1015056	1015056	1014532	
1014628-021	1015023	1015500-031	1016903-031	1007059	
		1015500-021	1016903-021	1015500-011	
		1014628-011	1015023-021	1014502	
		1014664-011	1015023-021	1014526-011	
		1015095-011	1015023-011	1014578-011	1014513
APPLICATION		APPLICATION		APPLICATION	

(H) REPLACES REV G WITH CHANGE

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

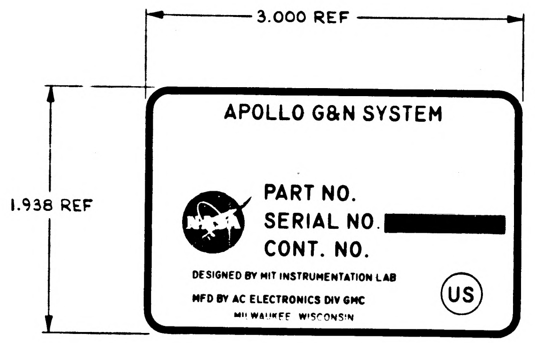
AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
ACSP P/N
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
CHARLESTON 29 OCT 63

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE AS NOTED
SHEET 1 OF 4

			DATE	APPR
F		REPLACES REV E WITH CHANGE PER TDRR 14681	3 NOV 64	JHH
H		REPLACES REV F WITH CHANGE PER TDRR 17038	11 MAR 65	A.N. CW
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISION STATUS CHANGED	5 OCT 65	A.N.
M		REVISION STATUS CHANGED	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	16 FEB 66	A.N.
P		REVISION STATUS CHANGED	22 FEB 66	A.N.
R		REVISED PER TDRR 27393	6-APR 66	J.E.G.
S		REVISED PER TDRR 27456	6-APR 66	J.E.G.



TYPE A

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-011

NAS 9-497

1014650-1

OPTICS SHROUD ASSY

1014502-011

NAS 9-497

1014650-3

OPTICS COVER ASSY

1014532

NAS 9-497

1014650-7

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-021

NAS 9-497

1014650-8

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1015053-011

NAS 9-497

1014650-10

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014664-011

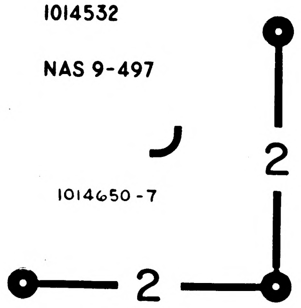
NAS 9-497

1014650-12

AGE HARNESS & PSA END
CONNECTOR ASSEMBLY
1015056

NAS 9-497

1014650-16



G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-031

NAS 9-497

1014650-22

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-041

NAS 9-497

1014650-26

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1015053-021

NAS 9-497

1014650-29

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014664-021

NAS 9-497

1014650-30

OPTICS SHROUD ASSY

1014502-021

NAS 9-497

1014650-31

NOTES:
1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

Ⓗ REPLACES REV F WITH CHANGE

NEXT ASSY | USED ON
APPLICATION

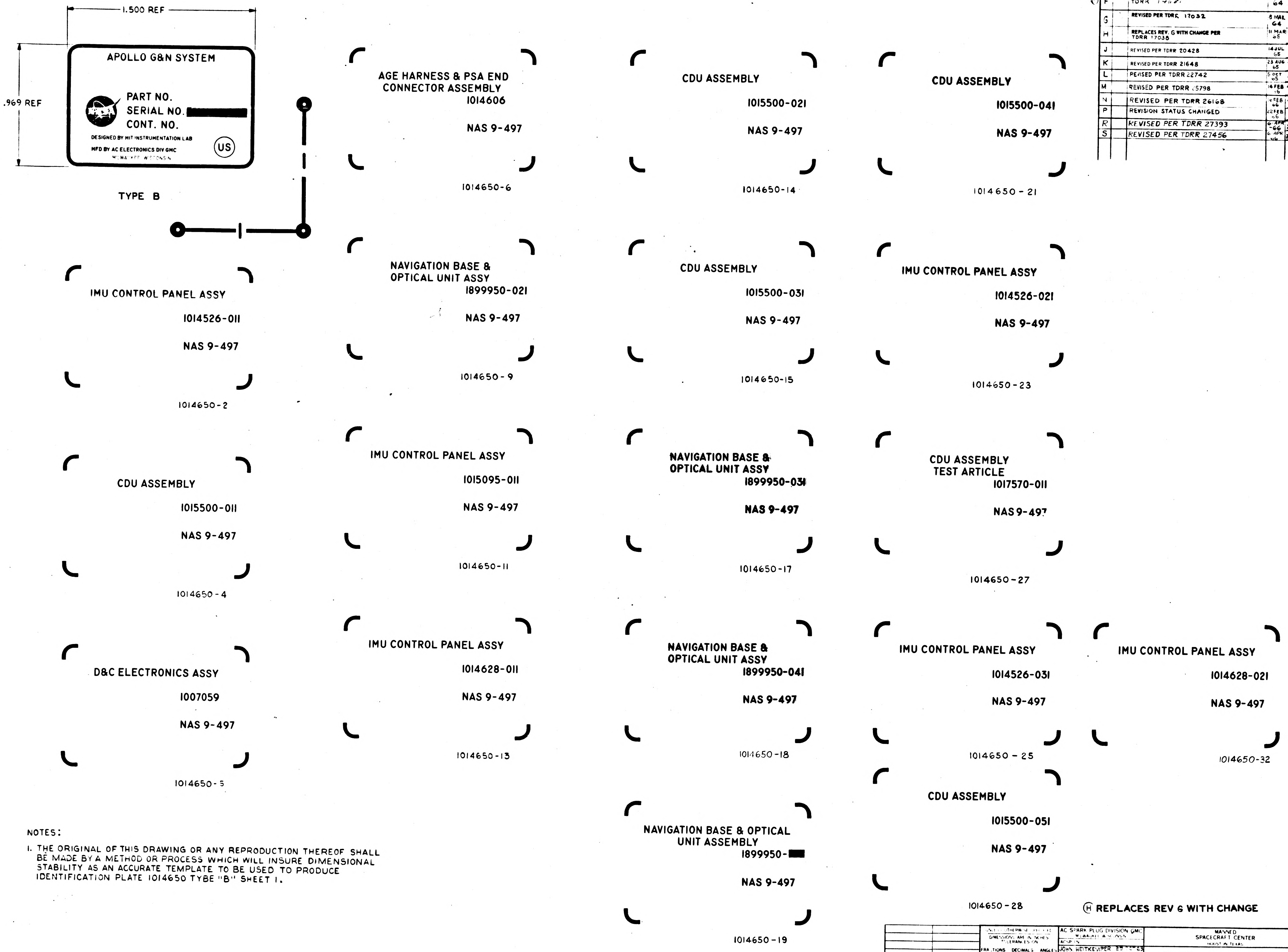
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL —
NAS9-497

AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
JOHN HEITKEMPER 29 OCT 63
O. NIMKIE 29 OCT 63
O.W. MIELENZ 29 OCT 63
NASA APPROVAL

MANNED
SPACECRAFT CENTER

PLATE, IDENTIFICATION
METAL FOIL

SIZE E 1014650
2:1
2 OF 4


1.500 REF
.969 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC ELECTRONICS DIV GMC
MILWAUKEE WISCONSIN
US
TYPE B
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9-497
1014650-6
CDU ASSEMBLY
1015500-021
NAS 9-497
1014650-14
CDU ASSEMBLY
1015500-041
NAS 9-497
1014650-21
IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497
1014650-2
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497
1014650-9
CDU ASSEMBLY
1015500-031
NAS 9-497
1014650-15
IMU CONTROL PANEL ASSY
1014526-021
NAS 9-497
1014650-23
CDU ASSEMBLY
1015500-011
NAS 9-497
1014650-4
IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497
1014650-11
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-031
NAS 9-497
1014650-17
CDU ASSEMBLY TEST ARTICLE
1017570-011
NAS 9-497
1014650-27
D&C ELECTRONICS ASSY
1007059
NAS 9-497
1014650-5
IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497
1014650-13
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-041
NAS 9-497
1014650-18
IMU CONTROL PANEL ASSY
1014526-031
NAS 9-497
1014650-25
IMU CONTROL PANEL ASSY
1014628-021
NAS 9-497
1014650-32
CDU ASSEMBLY
1015500-051
NAS 9-497
1014650-28
NAVIGATION BASE & OPTICAL UNIT ASSEMBLY
1899950-[redacted]
NAS 9-497
1014650-19

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

Ⓗ REPLACES REV 6 WITH CHANGE

REVISIONS

F		REPLACES REV E WITH CHANGE PER TDRR 14687	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.
M		REVISED PER TDRR 25798	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	FEB 66	A.N.
P		REVISION STATUS CHANGED	22 FEB 66	A.N.
R		REVISED PER TDRR 27393	6 APR 66	J.E.G.
S		REVISED PER TDRR 27456	6 APR 66	J.E.G.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

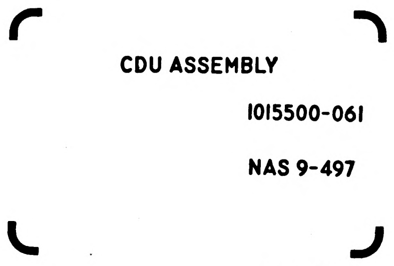
AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
ACSP FN
JOHN HEITKEMPER 29 OCT 63 DRAWN DATE
O. NIMKIE 29 OCT 63 CHECKED
D. W. MIELENZ 29 OCT 63 APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

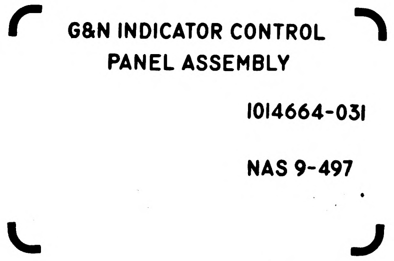
PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO | SIZE E | 1014650
SCALE 4:1 | SHEET 3 OF 4

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
N		THIS SHEET ADDED PER TDRR 26168 (Reissued #/ca)		16FEB 66	A.N.
P		REVISED PER TDRR 26173		22 FEB 66	A.N.
R		REVISED PER TDRR 27393		6-APR 66	H.L.S. J.E.G.
S		REVISED PER TDRR 27456		6-APR 66	H.L.N. J.E.G.



1014650-33
SCALE: 4:1



1014650-34
SCALE: 2:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-34	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-031		NAS 9-497
1014650-33	B	CDU ASSEMBLY	X	1015500-061		
-32	B	IMU CONTROL PANEL ASSY	X	1014628-021		
-31	A	OPTICS SHROUD ASSY	X	1014502-021		
-30	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-021		
1014650-29		G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-021		NAS 9-497

(N1) THIS SHEET ADDED

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN Art Nikurs DATE 16 FEB 66
CHECKED 21 FEB 66
APPROVAL
APPROVAL
NASA APPROVAL
M.I.T. APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

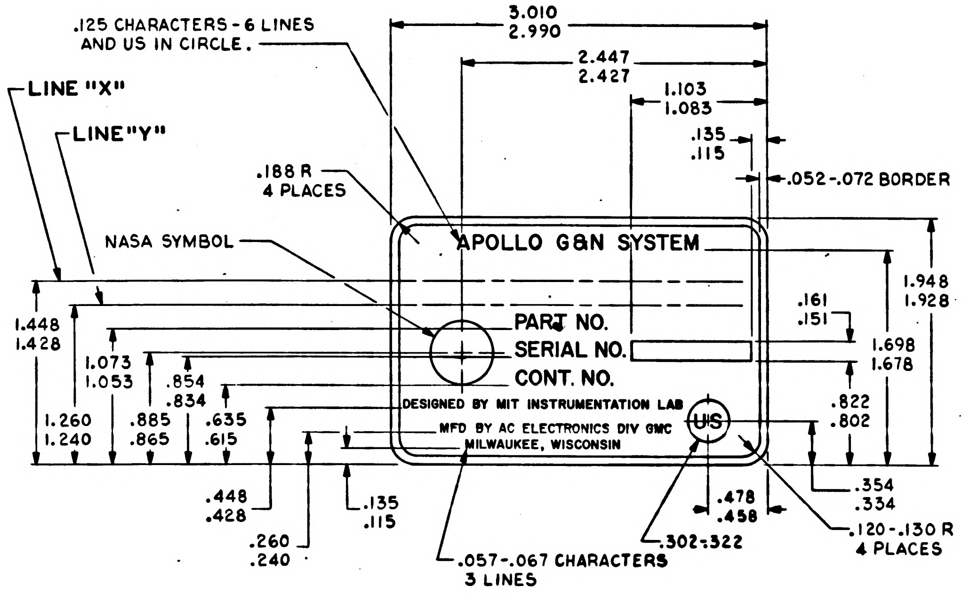
CODE IDENT NO
SIZE E
1014650
SCALE AS NOTED
SHEET 4 OF 4

NOTES:

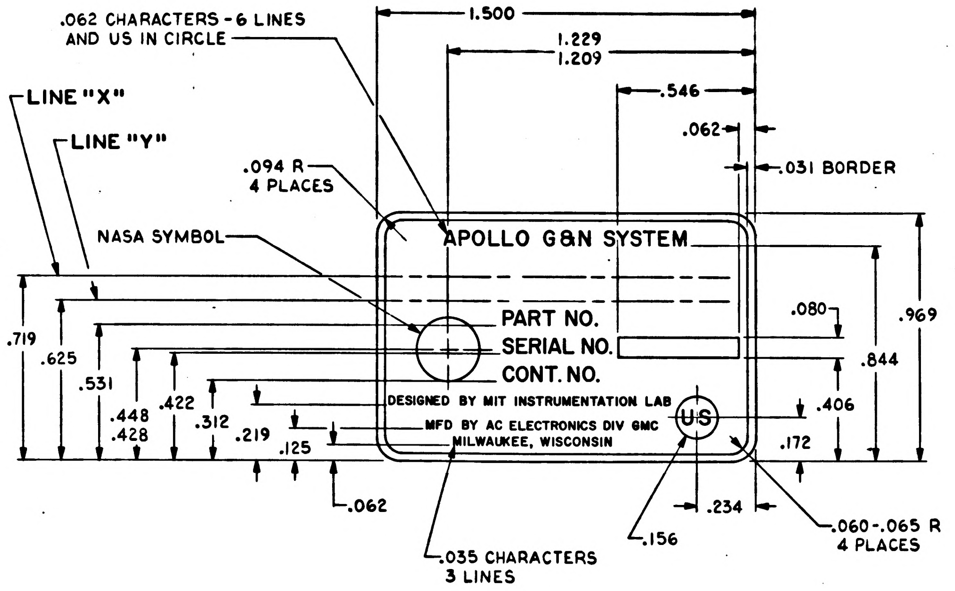
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM FOIL, ADHESIVE BACKED PER MIL-P-19834 TYPE II (ES-2436 TYPE II).
3. BACKGROUND TO BE BLACK; MARKING AND LETTERING TO BE NATURAL METAL.
4. WHERE LOCATING DIMENSIONS ARE NOT SHOWN, CHARACTERS SHALL BE SYMMETRICALLY POSITIONED AT THE INDICATED LOCATION.
5. IDENTIFY USING DRAWING NUMBER WITH APPLICABLE DASH NO. AND REVISION LETTER PER ND 1002019 ON BACK OF PLATE
6. SEE SHEET 2, 3, AND 4 FOR PHOTOGRAPHIC MASTERS.
7. WHEN THE "AUTOMARK" METAL MARKING TYPEWRITER IS USED TO ADD DATA TO BLANK SPACES, TYPE SIZE SHALL BE .120-.130 HIGH FOR TYPE "A" AND .057-.067 HIGH FOR TYPE "B".
8. NAMEPLATES TO CONFORM WITH MIL-M-13231.

REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPD
Ⓜ F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	RGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		R 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.
M		REVISED PER TDRR 25798	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	16 FEB 66	A.N.
P		REVISED PER TDRR 26173	22 FEB 66	A.N.
R		REVISION STATUS CHANGED	6-APR 66	J.E.G
S		REVISED PER TDRR 27456	6-APR 66	J.E.G
T		REVISED PER TDRR 30859	15 SEP 66	KES


.125 CHARACTERS - 6 LINES
AND US IN CIRCLE.
LINE "X"
LINE "Y"
.188 R
4 PLACES
NASA SYMBOL
3.010
2.990
2.447
2.427
1.103
1.083
.135
.115
.052-.072 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC ELECTRONICS DIV GMC
MILWAUKEE, WISCONSIN
US
1.948
1.928
.161
.151
1.698
1.678
.822
.802
1.448
1.428
1.073
1.053
.854
.834
1.260
1.240
.885
.865
.635
.615
.448
.428
.135
.115
.260
.240
.057-.067 CHARACTERS
3 LINES
.302-.322
.478
.458
.354
.334
.120-.130 R
4 PLACES

TYPE A
SCALE 2:1


.062 CHARACTERS - 6 LINES
AND US IN CIRCLE
LINE "X"
LINE "Y"
.094 R
4 PLACES
NASA SYMBOL
1.500
1.229
1.209
.546
.062
.031 BORDER
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC ELECTRONICS DIV GMC
MILWAUKEE, WISCONSIN
US
.080
.969
.844
.406
.172
.719
.625
.531
.448
.428
.422
.312
.219
.125
.062
.035 CHARACTERS
3 LINES
.156
.234
.060-.065 R
4 PLACES

TYPE B
SCALE 4:1

(CONTINUED ON SHEET 4)

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-28	B	CDU ASSEMBLY	X	1015500-051		NAS 9-497
1014650-27	B	CDU ASSEMBLY TEST ARTICLE	X Y	1017570-011		NAS 9-497
1014650-26	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-041		NAS 9-497
1014650-25	B	IMU CONTROL PANEL ASSY	X	1014526-031		NAS 9-497
1014650-23	B	IMU CONTROL PANEL ASSY	X	1014526-021		NAS 9-497
1014650-22	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-031		NAS 9-497
1014650-21	B	CDU ASSEMBLY	X	1015500-041		NAS 9-497
1014650-19	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-		NAS 9-497
-18	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-041		NAS 9-497
-17	B	NAVIGATION BASE & OPTICAL UNIT ASSEMBLY	X Y	1899950-031		
-16	A	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1015056		
-15	B	CDU ASSEMBLY	X	1015500-031		
-14	B	CDU ASSEMBLY	X	1015500-021		
-13	B	IMU CONTROL PANEL ASSY	X	1014628-011		
-12	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-011		
-11	B	IMU CONTROL PANEL ASSY	X	1015095-011		
-10	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-011		
-9	B	NAVIGATION BASE & OPTICAL UNIT ASSY	X Y	1899950-021		
-8	A	G & N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-021		
-7	A	OPTICS COVER ASSY	X	1014532		
-6	B	AGE HARNESS & PSA END CONNECTOR ASSEMBLY	X Y	1014606		
-5	B	D & C ELECTRONICS ASSY	X	1007059		
-4	B	CDU ASSEMBLY	X	1015500-011		
-3	A	OPTICS SHROUD ASSY	X	1014502-011		
-2	B	IMU CONTROL PANEL ASSY	X	1014526-011		
1014650-1	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014578-011		NAS 9-497

APPLICATION

NEXT ASSY	USED ON
1015500-061	1016903-051
1015053-021	1015023
1014664-021	1015023
1014502-021	1015023
1014628-021	1015023

APPLICATION

NEXT ASSY	USED ON	NEXT ASSY	USED ON
1015500-051	1021304-011		
1899950	1899950	1014578-041	1014513
1014526-031	1014513	1017570-011	1017570-011
1015500-041	1016903-031	1015053-011	1015023-011
1014578-031	1014513	1014606	1014606
1014526-021	1014513	1014578-021	1014513
1015056	1015056	1014532	
1015500-031	1016903-031	1007059	
1015500-021	1016903-021	1015500-011	
1014628-011	1015023-021	1014502	
1014664-011	1015023-021	1014526-011	
1015095-011	1015023-011	1014578-011	1014513

Ⓗ REPLACES REV G WITH CHANGE

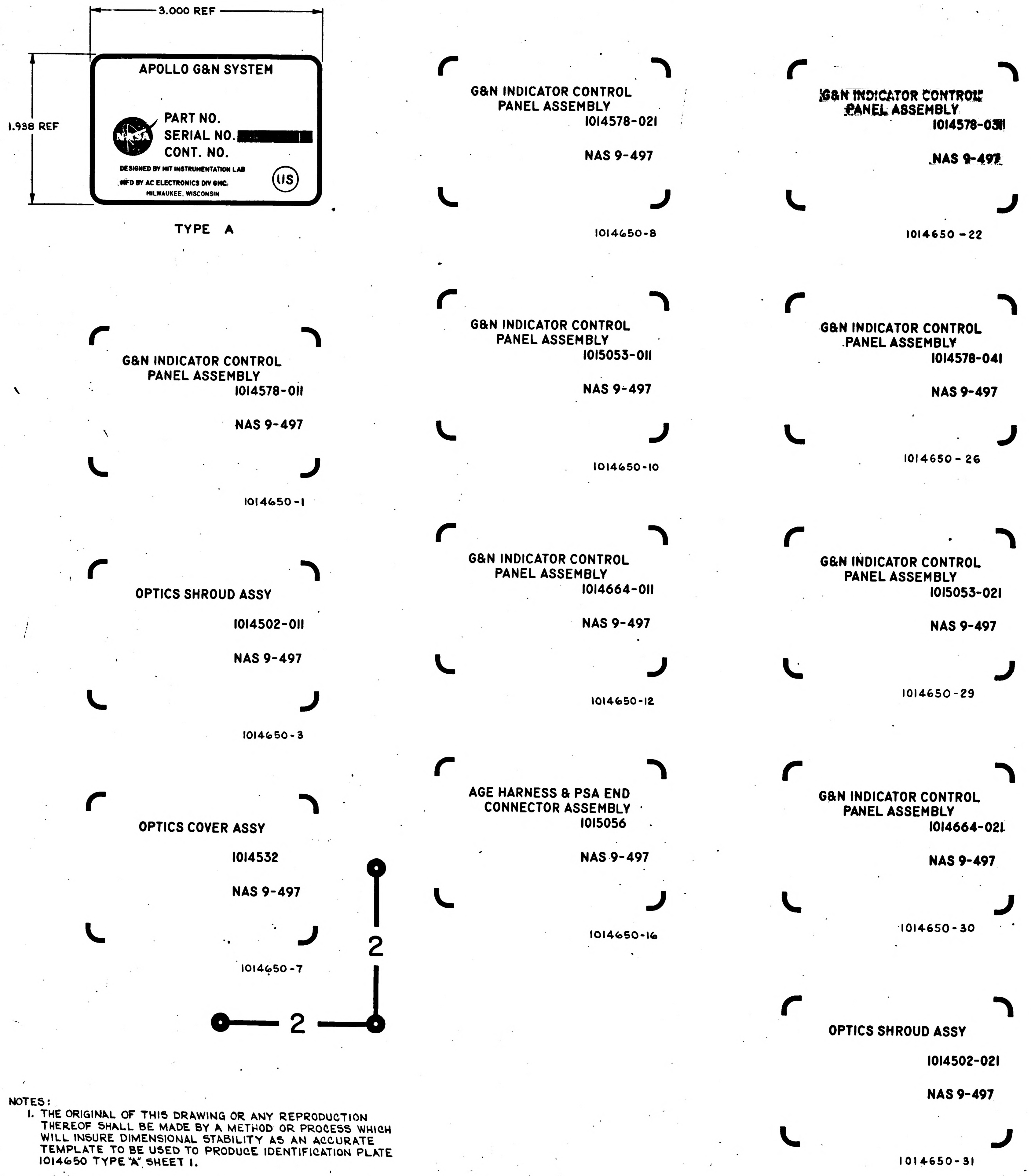
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — − — DECIMALS ±.02 ±.005 ANGLES + — − —
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. KARLING DATE 17 OCT 63
CHECKED C. PIOJDA 29 OCT 63
APPROVAL D.W. MIELENZ 29 OCT 63
APPROVAL 12/4/64
NASA APPROVAL 12-8-64
MIT APPROVAL
CHARLESTON 29 OCT 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO. SIZE E 1014650
SCALE AS NOTED SHEET 1 OF 4


3.000 REF
1.938 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO. [redacted]
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC ELECTRONICS DIV GMC.
MILWAUKEE, WISCONSIN
US
TYPE A
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-021
NAS 9-497
1014650-8
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-031
NAS 9-497
1014650 - 22
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-011
NAS 9-497
1014650-1
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1015053-011
NAS 9-497
1014650-10
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014578-041
NAS 9-497
1014650 - 26
OPTICS SHROUD ASSY
1014502-011
NAS 9-497
1014650-3
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014664-011
NAS 9-497
1014650-12
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1015053-021
NAS 9-497
1014650-29
OPTICS COVER ASSY
1014532
NAS 9-497
1014650-7
AGE HARNESS & PSA END
CONNECTOR ASSEMBLY
1015056
NAS 9-497
1014650-16
G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014664-021
NAS 9-497
1014650 - 30
2
2
OPTICS SHROUD ASSY
1014502-021
NAS 9-497
1014650-31

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "A" SHEET 1.

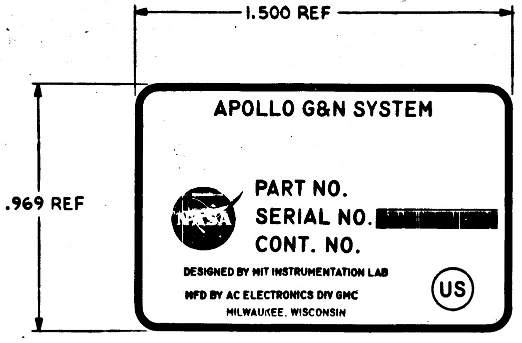
REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	3 NOV 64	JHH W.S.
H		REPLACES REV F WITH CHANGE PER TDRR 17038	11 MAR 65	A.N. CW
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISION STATUS CHANGED	5 OCT 65	A.N.
M		REVISION STATUS CHANGED	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	16 FEB 66	A.N.
P		REVISION STATUS CHANGED	22 FEB 66	A.N.
R		REVISED PER TDRR 27393	6-APR 66	A.F.W. J.E.G.
S		REVISED PER TDRR 27456	6 APR 66	A.F.W. J.E.G.
T		REVISED PER TDRR 30859	15 SEP 66	KES CW

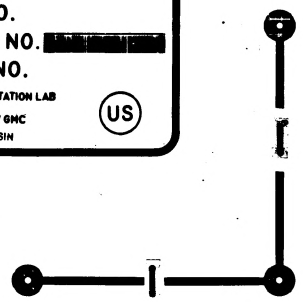
Ⓗ REPLACES REV F WITH CHANGE

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± — ± — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION. GMC MILWAUKEE, WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
APPLICATION		MATERIAL —	DRAWN JOHN HEITKEMPER DATE 29 OCT 63 CHECKED O. NIMKIE 29 OCT 63 APPROVAL O.W. MIELENZ 29 OCT 63 APPROVAL 2/4/64	PLATE, IDENTIFICATION METAL FOIL
		CONTRACT NAS9-497	NASA APPROVAL 12-3-64 MIT APPROVAL 8 Dec 64	CODE IDENT NO SIZE E 1014650 SCALE 2:1 SHEET 2 OF 4

1014650 T



TYPE B



IMU CONTROL PANEL ASSY
1014526-011
NAS 9-497

1014650-2

CDU ASSEMBLY
1015500-011
NAS 9-497

1014650-4

D&C ELECTRONICS ASSY
1007059
NAS 9-497

1014650-5

AGE HARNESS & PSA END
CONNECTOR ASSEMBLY
1014606
NAS 9-497

1014650-6

NAVIGATION BASE &
OPTICAL UNIT ASSY
1899950-021
NAS 9-497

1014650-9

IMU CONTROL PANEL ASSY
1015095-011
NAS 9-497

1014650-11

IMU CONTROL PANEL ASSY
1014628-011
NAS 9-497

1014650-13

CDU ASSEMBLY
1015500-021
NAS 9-497

1014650-14

CDU ASSEMBLY
1015500-031
NAS 9-497

1014650-15

NAVIGATION BASE &
OPTICAL UNIT ASSY
1899950-03[illegible]
NAS 9-497

1014650-17

NAVIGATION BASE &
OPTICAL UNIT ASSY
1899950-04[illegible]
NAS 9-497

1014650-18

NAVIGATION BASE & OPTICAL
UNIT ASSEMBLY
1899950-[redacted]
NAS 9-497

1014650-19

CDU ASSEMBLY
1015500-04[illegible]
NAS 9-497

1014650-21

IMU CONTROL PANEL ASSY
1014526-021
NAS 9-497

1014650-23

CDU ASSEMBLY
TEST ARTICLE
1017570-011
NAS 9-497

1014650-27

IMU CONTROL PANEL ASSY
1014526-031
NAS 9-497

1014650-25

CDU ASSEMBLY
1015500-051
NAS 9-497

1014650-28

IMU CONTROL PANEL ASSY
1014628-021
NAS 9-497

1014650-32

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYBE "B" SHEET 1.

Ⓗ REPLACES REV G WITH CHANGE

REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPD
F		REPLACES REV. E WITH CHANGE PER TDRR 14681	2 NOV 64	PHG
G		REVISED PER TDRR 17032	8 MAR 64	PGB
H		REPLACES REV. G WITH CHANGE PER TDRR 17038	11 MAR 65	A.N.
J		REVISED PER TDRR 20428	14 JUL 65	A.N.
K		REVISED PER TDRR 21648	23 AUG 65	A.N.
L		REVISED PER TDRR 22742	5 OCT 65	A.N.
M		REVISED PER TDRR 25798	14 FEB 66	A.N.
N		REVISED PER TDRR 26168	16 FEB 66	A.N.
P		REVISION STATUS CHANGED	22 FEB 66	A.N.
R		REVISED PER TDRR 27393	6-APR-66	X.7.N. J.E.G.
S		REVISED PER TDRR 27486	6-APR 66	X.7.N. J.E.G.
T		REVISED PER TDRR 30859	15 SEP 66	KES

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN JOHN HEITKEMPER DATE 29 OCT 63
CHECKED O. NIMKIE 29 OCT 63
APPROVAL D.W. MELENZ 29 OCT 63
APPROVAL
NASA APPROVAL 12-8-64
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO
SIZE E
1014650
SCALE 4:
SHEET 3 OF 4

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
N		THIS SHEET ADDED PER TDRR 26168 (REISSUED 3/9/66)		16 FEB 66	A.N. / OW
P		REVISED PER TDRR 26173		22 FEB 66	A.N. / OW
R		REVISED PER TDRR 27393		6-APR 66	H.T.W. / J.E.G
S		REVISED PER TDRR 27456		6-APR 66	H.T.W. / J.E.G
T		REVISED PER TDRR 30859		15 SEP 66	KES / OW

CDU ASSEMBLY

1015500-061

NAS 9-497

1014650-33
SCALE: 4:1

G&N INDICATOR CONTROL
PANEL ASSEMBLY
1014664-031

NAS 9-497

1014650-34
SCALE: 2:1

OPTICS COVER ASSY

1023080-011

NAS 9-497

1014650-35
SCALE: 2:1

DWG NO.	TYPE	NAME	LINE	PART NO.	SERIAL NO.	CONT. NO.
1014650-35	A	OPTICS COVER ASSY	X	1023080-011		NAS 9-497
1014650-34	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-031		
1014650-33	B	CDU ASSEMBLY	X	1015500-061		
-32	B	IMU CONTROL PANEL ASSY	X	1014628-021		
-31	A	OPTICS SHROUD ASSY	X	1014502-021		
-30	A	G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1014664-021		
1014650-29		G&N INDICATOR CONTROL PANEL ASSEMBLY	X Y	1015053-021		NAS 9-497

Ⓝ1 THIS SHEET ADDED

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Art. Nikurs DATE 16 FEB 66
CHECKED 21 FEB 66
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
METAL FOIL

CODE IDENT NO.
SIZE E
1014650
SCALE AS NOTED
SHEET 4 OF 4

1014650 T

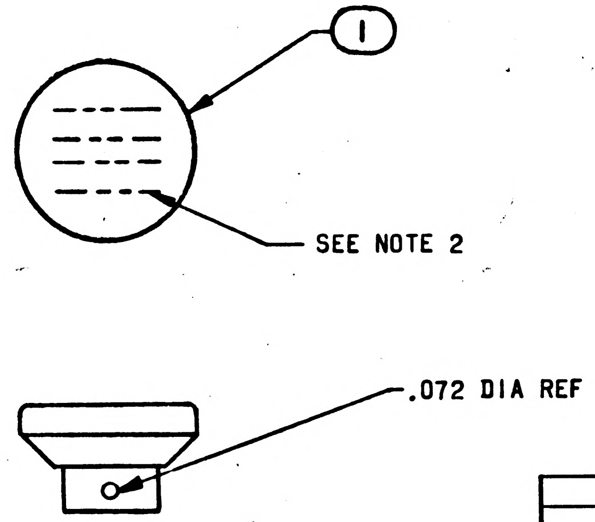
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MARKING:
   ENGRAVE CHARACTERS .12 HIGH AND $\substack{.010\\.015}$ DEEP. USE CHARACTERS PER ND (ES-2859 CLASS II). FILL WITH ITEM 2. CHARACTERS TO BE CENTERED ABOUT CENTER-LINES AND TO BE PERPENDICULAR TO .072 DIA HOLE WITHIN 2°. BUTTONS WITH 2 LINES SHALL HAVE A .09 SPACE BETWEEN THE LINES.
3. IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

PART NUMBER	MARKING SEE NOTE 2
1014651-1	CDU MAN
1014651-2	ATT CONT
1014651-3	ENTRY
1014651-4	ZERO ENC
1014651-5	COARS ALIGN
1014651-6	FINE ALIGN
1014651-7	TRACK

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		24 JUL 63	WB
		TDRR 02526		14 AUG 1963	WK



ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	AR	MIL-E-7729	PAINT TYPE I COLOR 515 (BLACK)
1	1	1010627-3	PUSH BUTTON

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014578	1014513
1014526	1014513

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Geschke DATE 11 JUL 63
CHECKED Hogue 15 JULY 63
APPROVAL D. Mi[illegible] 15 July 63
APPROVAL [illegible] 15 JULY 63
NASA APPROVAL [illegible] 8/7/63
MIT APPROVAL W Kupfer 14 Aug 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PUSHBUTTON,
ILLUMINATED

CODE IDENT NO.
SIZE C
1014651
SCALE —
SHEET 1 of 1

MIL 1077C—P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

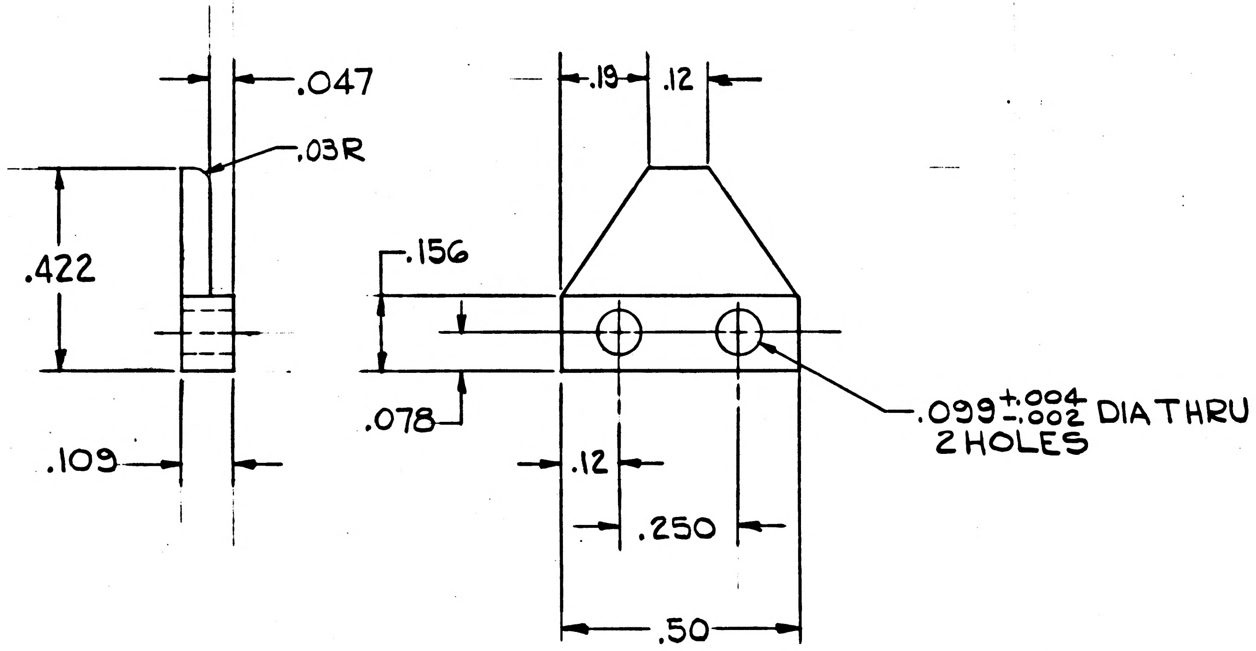
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014652 | A

REVISIONS TDRR 02364

SYM	DESCRIPTION	DATE	APPROVAL
A1	(A1) UPGRADED FOR CLASS A RELEASE	17 JULY 63	

1. INTERPERT DRAWING IN ACCORDANCE WITH
2. STANDARD PRESCRIBED BY MIL-D-70327.
3. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS MUST NOT EXCEED .010R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt[125]{}$.
4. MUST BE FREE FROM BURRS.
5. IDENTIFY USING DWG NO. AND REVISION LETTER PER MIL-STD-130.



MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014643	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
TWO PLACE DECIMALS ±.02 DECIMALS ±.005 ANGLES ± –
DO NOT SCALE THIS DRAWING
MATERIAL QQ-A-355 TEMPER T-4 (AL ALY 2024)
HEAT TREATMENT –
FINAL FINISH MIL-A-8625, TYPE I (ANODIZE)

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN JA LIMA DATE 3 JULY 63
CHECKED 10 JULY 63
APPROVAL 7/12/63
APPROVAL
NASA APPROVAL
MIT APPROVAL 31 July 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

STOP BLOCK

CODE IDENT NO. | SIZE C | NASA DRAWING NO. 1014652
SCALE 4:1 | WT | SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

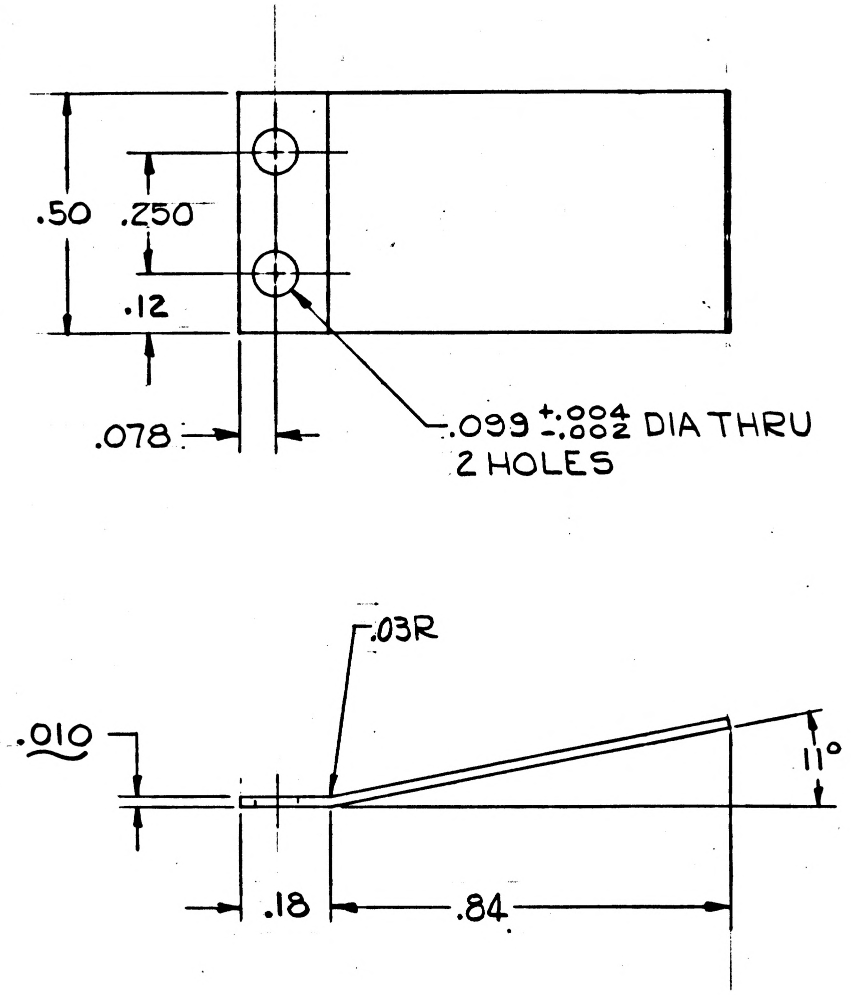
1014653 | A

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS TDRR 02364

SYM	DESCRIPTION	DATE	APPROVAL
A1	(A1) UPGRADED FOR CLASS A RELEASE	17 July 63	

1. INTERPERT DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBE BY MIL-D-70327.
2. QQ-S-766 CLASS 301, FULL HARD (S ST).
3. MUST BE FROM BURRS & SHARP CORNERS.
4. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130
5. PASSIVATE PER MIL-F-14072 (SIG C) FINISH E300.



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014643	1014578
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	DECIMALS	ANGLES
±.02	±.005	± 1°

DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT —
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN Ja Lima DATE 3 JULY 63
CHECKED W. L. Parker 10 JULY 63
APPROVAL 7/22/63
APPROVAL
NASA APPROVAL Jack Barnard
MIT APPROVAL W. Kupfer 3 July 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ACTUATOR SPRING

CODE IDENT NO.	SIZE	NASA DRAWING NO.
	C	1014653
SCALE 4:1	WT	SHEET 1 OF 1

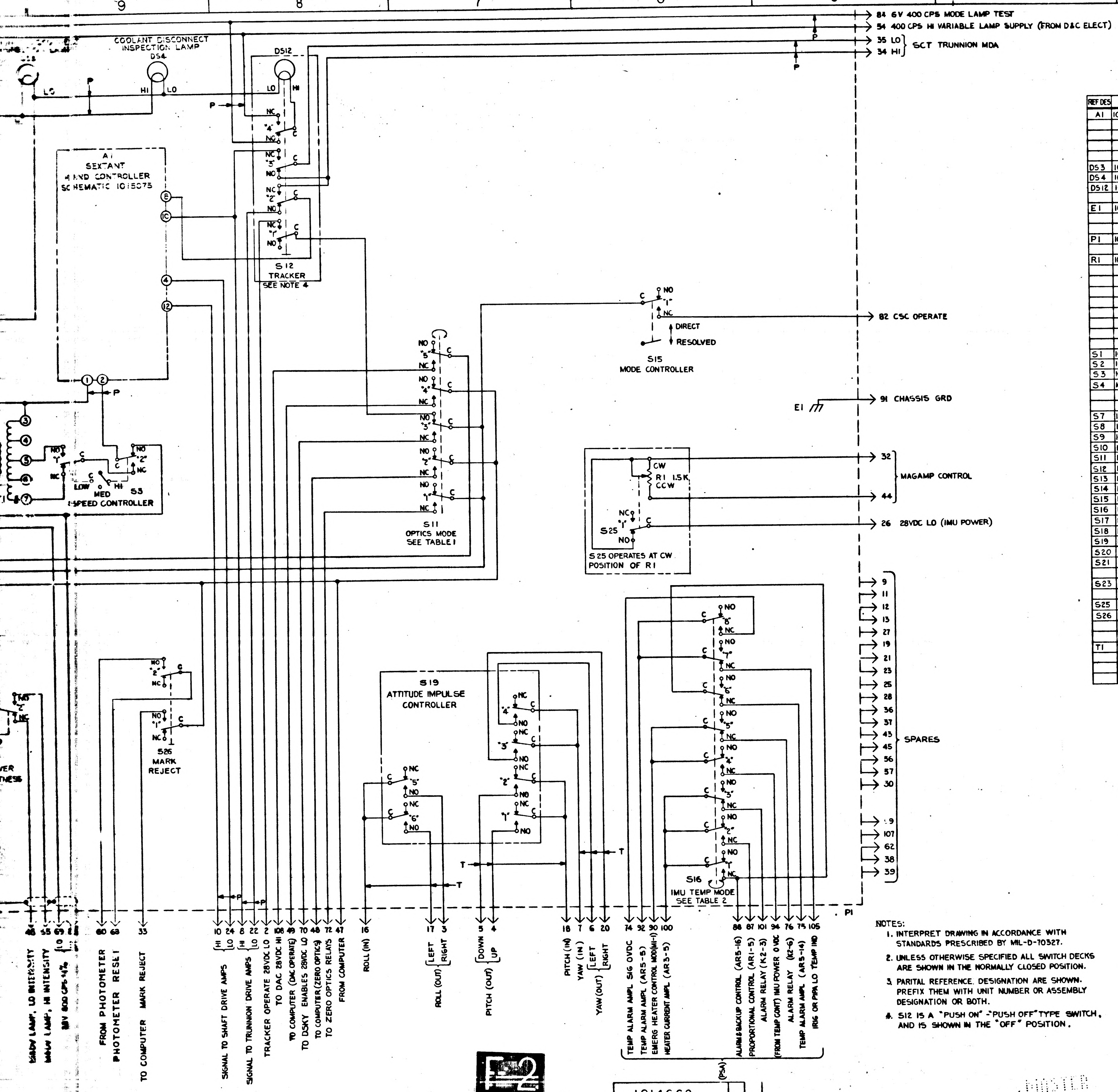
MASTER

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014662 A

ZONE	SYM	DESCRIPTION	DATE	APPROVAL
	A	REVISED PER TDRR NO. 13029	1 OCT 64	W.K.

REVISIONS TDRR 1255


84 6V 400 CPS MODE LAMP TEST
54 400 CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
35 LO
34 HI
SCT TRUNNION MDA
COOLANT DISCONNECT INSPECTION LAMP
DS4
DS3
DS12
HI
LO
P
NC
NO
C
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1015075
S12 TRACKER SEE NOTE 4
S15 MODE CONTROLLER
DIRECT
RESOLVED
82 CSC OPERATE
E1
91 CHASSIS GRD
S11 OPTICS MODE SEE TABLE 1
S3 SPEED CONTROLLER
LOW
MED
HI
CW
R1 1.5K
CCW
S25
S25 OPERATES AT CW POSITION OF R1
32
44
MAGAMP CONTROL
26 28VDC LO (IMU POWER)
S19 ATTITUDE IMPULSE CONTROLLER
S16 IMU TEMP MODE SEE TABLE 2
S26 MARK REJECT
T
SPARES
9 11 12 13 27 19 21 23 25 28 36 37 43 45 56 57 30 19 107 62 38 39
P1
46 55 69 8
MAN LAMP, LO INTENSITY
MAN LAMP, HI INTENSITY
28V 800 CPS ±1%
LO
60 68
FROM PHOTOMETER
PHOTOMETER RESET
33
TO COMPUTER MARK REJECT
10 24 8 22 2 108 49 70 48 72 47
HI LO HI LO
SIGNAL TO SHAFT DRIVE AMPS
SIGNAL TO TRUNNION DRIVE AMPS
TRACKER OPERATE 28VDC LO
TO DAC 28VDC HI
TO COMPUTER (DAC OPERATE)
TO DSKY ENABLES 28VDC LO
TO COMPUTER (ZERO OPTICS)
TO ZERO OPTICS RELAYS
FROM COMPUTER
16
ROLL (IN)
17 3
LEFT RIGHT
ROLL (OUT)
5 4
DOWN UP
PITCH (OUT)
18 7 6 20
PITCH (IN)
YAW (IN)
LEFT RIGHT
YAW (OUT)
74 92 90 100
TEMP ALARM AMPL SIG OVDC
TEMP ALARM AMPL (AR5-5)
EMERG HEATER CONTROL MOD(MI-1)
HEATER CURRENT AMPL (AR3-5)
88 87 101 94 76 75 105
ALARM & BACKUP CONTROL (AR5-16)
PROPORTIONAL CONTROL (AR1-5)
ALARM RELAY (K2-3)
(FROM TEMP CONT) IMU POWER O VDC
ALARM RELAY (K2-6)
TEMP ALARM AMPL (AR5-14)
IRIG OR PIPA LO TEMP IND
(PSA)

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1021700	SEXTANT HAND CONT			
DS3	1010268-2	LAMP			
DS4	1010268-2	LAMP			
DS12	1010624-2	LAMP			
E1	1010638-6	TERMINAL LUG			
P1	1010825-1	CONNECTOR			
R1	1010764-2	POTENTIOMETER	1.5K		5W
S1	1010480-3	SWITCH, PUSH-BUTTON			
S2	1010480-2	PUSH-BUTTON			
S3	1010478-1	TOGGLE			
S4	1010484-1	TOGGLE			
S7	1010480-1	PUSH-BUTTON			
S8	1010480-2	PUSH-BUTTON			
S9	1010479-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010494-4	ROTARY			
S12	1010627-2	PUSH-BUTTON			
S13	1010480-2	PUSH-BUTTON			
S14	1010478-1	TOGGLE			
S15	1010484-2	TOGGLE			
S16	1010494-2	ROTARY			
S17	1010480-1	PUSH-BUTTON			
S18	1010478-2	TOGGLE			
S19	1015048-011	IMPULSE			
S20	1010480-3	PUSH-BUTTON			
S21	1010480-3	PUSH-BUTTON			
S23	1010480-2	PUSH-BUTTON			
S25	1010435-001				
S26	1010480-1	SWITCH, PUSH-BUTTON			
T1	1010492	TRANSFORMER			

TABLE 1
S11 OPTICS MODE SWITCH
(SHOWN IN MANUAL POSITION)

POSITION	DECK ACTUATED
ZERO OPTICS	1, 2
MANUAL	NONE
COMPUTER	3, 4, 5

TABLE 2
S16 IMU TEMP MODE SWITCH
(SHOWN IN AUTO OVERRIDE POSITION)

POSITION	DECK ACTUATED
AUTO OVERRIDE	3, 5, 6, 7
PROPORTIONAL	2, 6, 7
BACK-UP	1
EMERGENCY	4, 8

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION.
3. PARITAL REFERENCE. DESIGNATION ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. S12 IS A "PUSH ON" - "PUSH OFF" TYPE SWITCH, AND IS SHOWN IN THE "OFF" POSITION.

F2

1014662

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

NEXT ASSY	USED ON
	1014669-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN E. Eckels DATE 7/27-64
CHECKED F J Backus 9-14-64
APPROVAL
APPROVAL
NASA APPROVAL W J Rhine 9-16-64
MIT APPROVAL L Hazel 9/15/64

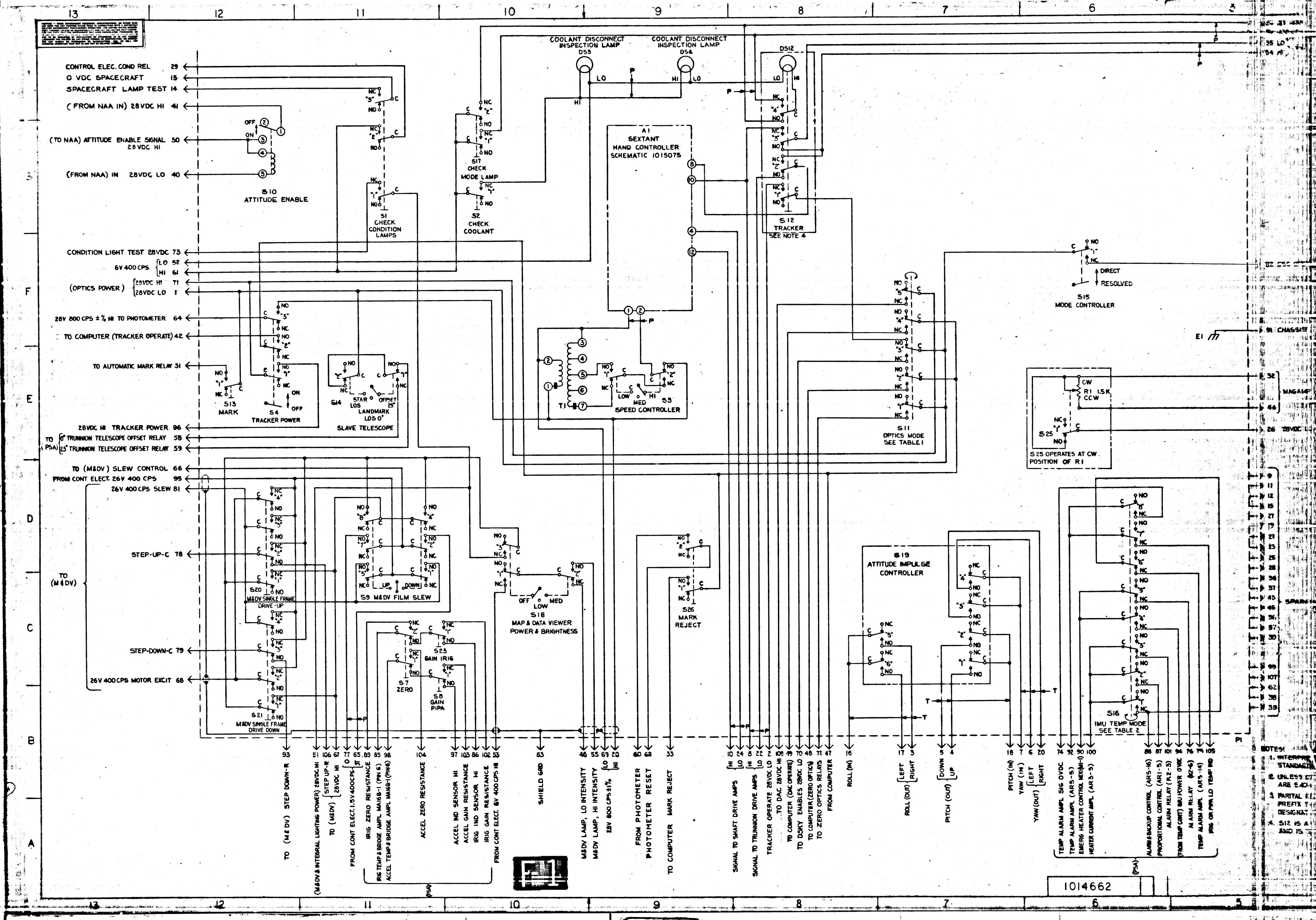
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

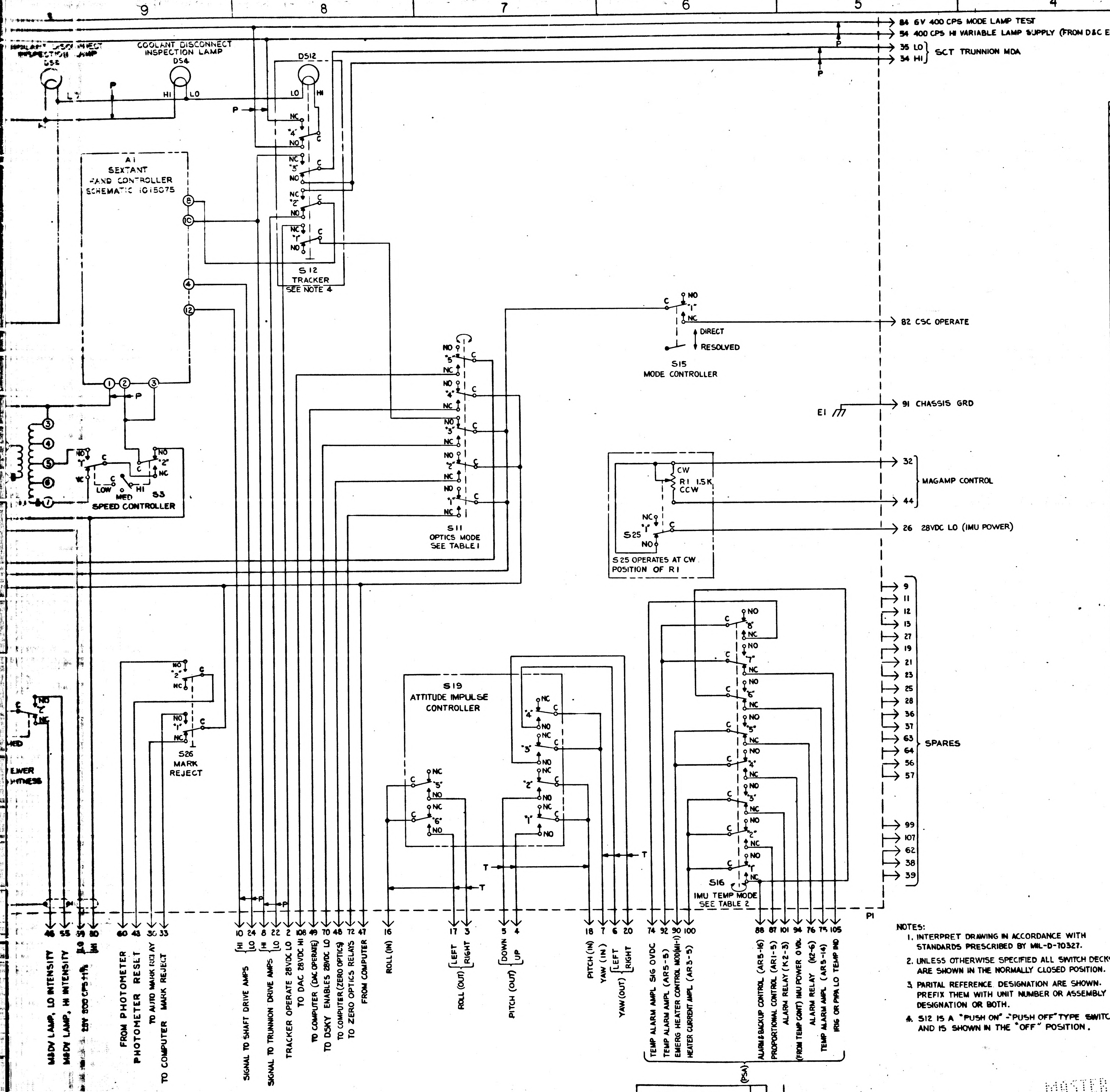
G & N INDICATOR
CONTROL PANEL
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE J
NASA DRAWING NO. 1014662
SCALE —
WT —
SHEET
OF

1014662

INCHES


13
12
11
10
9
8
7
6
5
CONTROL ELEC. COND REL 29
0 VDC SPACECRAFT 15
SPACECRAFT LAMP TEST 14
(FROM NAA IN) 28VDC HI 41
(TO NAA) ATTITUDE ENABLE SIGNAL 50
28VDC HI
(FROM NAA) IN 28VDC LO 40
OFF
ON
S10
ATTITUDE ENABLE
S1
CHECK CONDITION LAMPS
S17
CHECK MODE LAMP
S2
CHECK COOLANT
COOLANT DISCONNECT INSPECTION LAMP
DS3
COOLANT DISCONNECT INSPECTION LAMP
DS4
DS12
LO
HI
P
A1
SEXTANT HAND CONTROLLER SCHEMATIC 1015075
S12
TRACKER
SEE NOTE 4
CONDITION LIGHT TEST 28VDC 73
6V 400 CPS LO 52
HI 61
(OPTICS POWER) 28VDC HI 71
28VDC LO 1
28V 800 CPS ± % HI TO PHOTOMETER 64
TO COMPUTER (TRACKER OPERATE) 42
TO AUTOMATIC MARK RELAY 31
S13
MARK
S4
TRACKER POWER
S14
STAR LOS
OFFSET 25°
LANDMARK LOS 0°
SLAVE TELESCOPE
T1
LOW
MED
HI
S5
SPEED CONTROLLER
S11
OPTICS MODE
SEE TABLE 1
DIRECT
RESOLVED
S15
MODE CONTROLLER
E1
CHASSIS
CW
R1 1.5K
CCW
S25
S25 OPERATES AT CW. POSITION OF R1
MAGAMP
28VDC
28VDC HI TRACKER POWER 96
TO (PSA) 0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
TO (M&DV) SLEW CONTROL 66
FROM CONT ELECT. 26V 400 CPS 95
26V 400 CPS SLEW 81
STEP-UP-C 78
TO (M&DV)
STEP-DOWN-C 79
26V 400 CPS MOTOR EXCIT 68
S20
M&DV SINGLE FRAME DRIVE-UP
S21
M&DV SINGLE FRAME DRIVE DOWN
UP
DOWN
S9 M&DV FILM SLEW
S23
GAIN IRIG
S7
ZERO
S8
GAIN PIPA
OFF
LOW
MED
S18
MAP & DATA VIEWER POWER & BRIGHTNESS
S26
MARK REJECT
S19
ATTITUDE IMPULSE CONTROLLER
S16
IMU TEMP MODE
SEE TABLE 2
P1
SPARES
93 TO (M&DV) STEP DOWN-R
51 (M&DV & INTEGRAL LIGHTING POWER) 28VDC HI
106 TO (M&DV) STEP UP-R
67 28VDC HI
77 FROM CONT ELECT. 1.5V 400CPS
65 IRIG ZERO RESISTANCE
83 IRIG TEMP & BRIDGE AMPL MA16B-1 (PIN 5)
85 ACCEL TEMP & BRIDGE AMPL MA16B-1 (PIN 6)
98
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
86 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
53 FROM CONT ELECT. 6V 400 CPS HI
(PSA)
83 SHIELD GRD
46 M&DV LAMP, LO INTENSITY
55 M&DV LAMP, HI INTENSITY
69 LO
20 HI
28V 800 CPS ±1%
60 FROM PHOTOMETER
63 PHOTOMETER RESET
33 TO COMPUTER MARK REJECT
10 HI
24 LO
SIGNAL TO SHAFT DRIVE AMPS
8 HI
22 LO
SIGNAL TO TRUNNION DRIVE AMPS
2 TRACKER OPERATE 28VDC LO
108 TO DAC 28VDC HI
19 TO COMPUTER (DAC OPERATE)
70 TO DSKY ENABLES 28VDC LO
48 TO COMPUTER (ZERO OPTICS)
72 TO ZERO OPTICS RELAYS
47 FROM COMPUTER
16 ROLL (IN)
17 ROLL (OUT) LEFT
3 RIGHT
5 PITCH (OUT) DOWN
4 UP
18 PITCH (IN)
7 YAW (IN)
6 YAW (OUT) LEFT
20 RIGHT
74 TEMP ALARM AMPL SIG 0VDC
92 TEMP ALARM AMPL (AR5-5)
90 EMERG HEATER CONTROL MOD(H-1)
100 HEATER CURRENT AMPL (AR5-5)
88 ALARM & BACKUP CONTROL (AR5-16)
87 PROPORTIONAL CONTROL (AR1-5)
101 ALARM RELAY (K2-3)
94 (FROM TEMP CONT) IMU POWER 0VDC
76 AL ARM RELAY (K2-6)
75 TEMP ALARM AMPL (AR5-14)
105 PIPA OR PIPA LO TEMP IND
(PSA)
NOTES:
1. INTERPRE
STANDAR
2. UNLESS OT
ARE 5-40
3. PARTIAL
PREFIX
DESIGNAT
4. S12 IS A
AND IS
1014662


9
8
7
6
5
4
3
COOLANT DISCONNECT INSPECTION LAMP
DS4
DS3
DS12
HI
LO
P
NC
"4"
"3"
"2"
"1"
NO
C
S12
TRACKER
SEE NOTE 4
A1
SEXTANT
HAND CONTROLLER
SCHEMATIC 1015075
B
1C
4
12
1
2
3
5
6
7
S3
SPEED CONTROLLER
LOW
MED
HI
84 6V 400 CPS MODE LAMP TEST
54 400 CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
35 LO
34 HI
SCT TRUNNION MDA
S15
MODE CONTROLLER
DIRECT
RESOLVED
82 CSC OPERATE
E1
91 CHASSIS GRD
S11
OPTICS MODE
SEE TABLE 1
"5"
R1 1.5K
CW
CCW
S25
32
44
MAGAMP CONTROL
26 28VDC LO (IMU POWER)
S25 OPERATES AT CW POSITION OF R1
9
11
12
13
27
19
21
23
25
28
36
37
63
64
56
57
99
107
62
38
39
SPARES
S19
ATTITUDE IMPULSE CONTROLLER
"6"
T
S16
IMU TEMP MODE
SEE TABLE 2
"8"
P1
S26
MARK REJECT
46
55
59
80
LO
HI
M&DV LAMP, LO INTENSITY
M&DV LAMP, HI INTENSITY
28V 800 CPS ±1%
60
43
30
33
FROM PHOTOMETER
PHOTOMETER RESET
TO AUTO MARK RELAY
TO COMPUTER MARK REJECT
10
24
8
22
2
108
49
70
48
72
47
SIGNAL TO SHAFT DRIVE AMPS
SIGNAL TO TRUNNION DRIVE AMPS
TRACKER OPERATE 28VDC LO
TO DAC 28VDC HI
TO COMPUTER (DAC OPERATE)
TO DSKY ENABLES 28VDC LO
TO COMPUTER (ZERO OPTICS)
TO ZERO OPTICS RELAYS
FROM COMPUTER
16
ROLL (IN)
17
3
LEFT
RIGHT
ROLL (OUT)
5
4
DOWN
UP
PITCH (OUT)
18
7
6
20
PITCH (IN)
YAW (IN)
YAW (OUT)
74
92
90
100
TEMP ALARM AMPL SIG OVDC
TEMP ALARM AMPL (AR5-5)
EMERG HEATER CONTROL MOD(MI-1)
HEATER CURRENT AMPL (AR3-5)
88
87
101
94
76
75
105
ALARM & BACKUP CONTROL (AR5-16)
PROPORTIONAL CONTROL (AR1-5)
ALARM RELAY (K2-3)
(FROM TEMP CONT) IMU POWER 0 VDC
ALARM RELAY (K2-6)
TEMP ALARM AMPL (AR5-14)
IRIG OR PIPA LO TEMP IND
(PSA)
1014662

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1021700	SEXTANT HAND CONT			
DS3	1010268-2	LAMP			
DS4	1010268-2	LAMP			
DS12	1010624-2	LAMP			
E1	1010638-6	TERMINAL LUG			
P1	1010825-1	CONNECTOR			
R1	1010764-2	POTENTIOMETER	1.5K		5W
S1	1010480-3	SWITCH, PUSH-BUTTON			
S2	1010480-2	PUSH-BUTTON			
S3	1010478-1	TOGGLE			
S4	1010484-1	TOGGLE			
S7	1010480-1	PUSH-BUTTON			
S8	1010480-2	PUSH-BUTTON			
S9	1010479-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010494-4	ROTARY			
S12	1010627-2	PUSH-BUTTON			
S13	1010480-2	PUSH-BUTTON			
S14	1010478-1	TOGGLE			
S15	1010484-2	TOGGLE			
S16	1010494-2	ROTARY			
S17	1010480-1	PUSH-BUTTON			
S18	1010478-2	TOGGLE			
S19	1015048-011	IMPULSE			
S20	1010480-3	PUSH-BUTTON			
S21	1010480-3	PUSH-BUTTON			
S23	1010480-2	PUSH-BUTTON			
S25	1010435-001				
S26	1010480-1	SWITCH, PUSH-BUTTON			
T1	1010492	TRANSFORMER			

TABLE 1
S11 OPTICS MODE SWITCH
(SHOWN IN MANUAL POSITION)

POSITION	DECK ACTUATED
ZERO OPTICS	1, 2
MANUAL	NONE
COMPUTER	3, 4, 5

TABLE 2
S16 IMU TEMP MODE SWITCH
(SHOWN IN AUTO OVERRIDE POSITION)

POSITION	DECK ACTUATED
AUTO OVERRIDE	3, 5, 6, 7
PROPORTIONAL	2, 6, 7
BACK-UP	1
EMERGENCY	4, 8

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION.
3. PARITAL REFERENCE DESIGNATION ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. S12 IS A "PUSH ON" - "PUSH OFF" TYPE SWITCH, AND IS SHOWN IN THE "OFF" POSITION.

1014662 A

REVISIONS TDRR 2532

ZONE	SYM	DESCRIPTION	DATE	APPROVAL
	A	REVISED PER TDRR NO. 13029	1 OCT 64	W.K.
	B	REVISED PER TDRR NO. 13324	16 OCT 64	

F-2

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

NEXT ASSY	USED ON
	1014664-011

APPLICATION

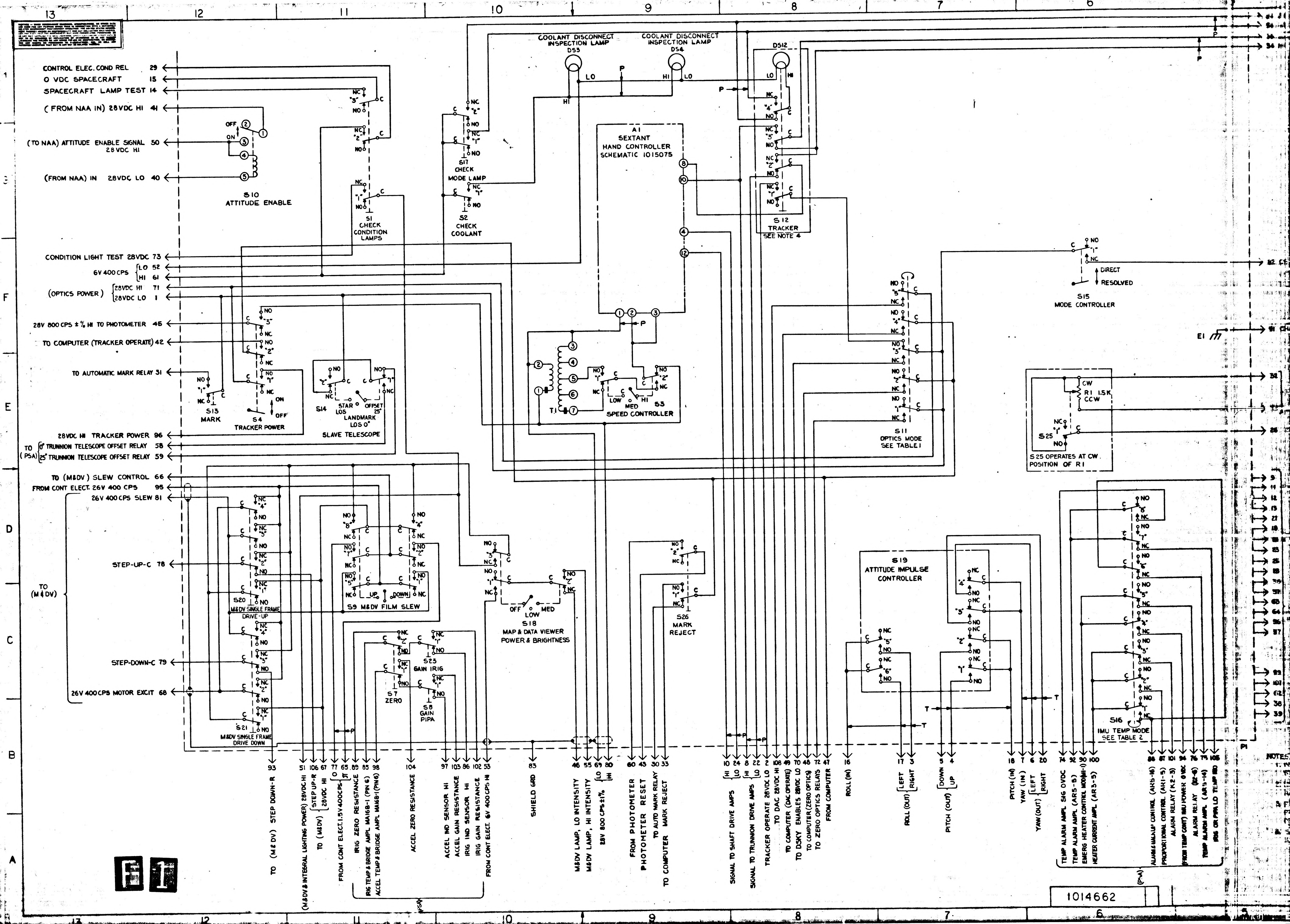
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DRAWN E. Rotola DATE 7/27-64
CHECKED F. J. Boekema 9-14-64
APPROVAL
APPROVAL
NASA APPROVAL W. J. 9-16-64
MIT APPROVAL 9/15/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INDICATOR
CONTROL PANEL
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE J
NASA DRAWING NO. - 1014662
SCALE —
WT —
SHEET OF

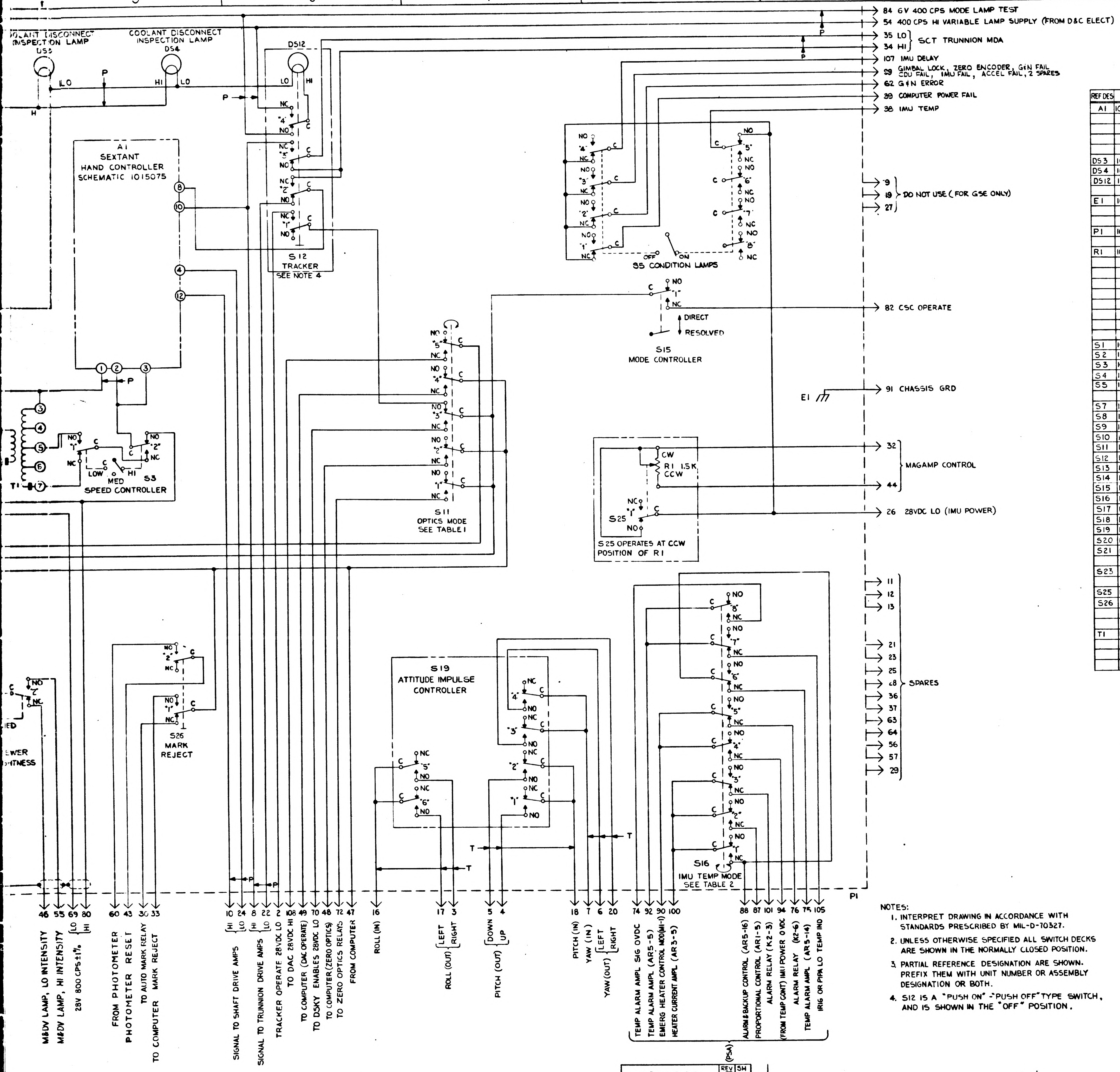

CONTROL ELEC. COND REL 29
0 VDC SPACECRAFT 15
SPACECRAFT LAMP TEST 14
(FROM NAA IN) 28VDC HI 41
(TO NAA) ATTITUDE ENABLE SIGNAL 50 28VDC HI
(FROM NAA) IN 28VDC LO 40
S10 ATTITUDE ENABLE
OFF
ON
S1 CHECK CONDITION LAMPS
S17 CHECK MODE LAMP
S2 CHECK COOLANT
COOLANT DISCONNECT INSPECTION LAMP DS3
COOLANT DISCONNECT INSPECTION LAMP DS4
DS12
LO
HI
P
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1015075
S12 TRACKER SEE NOTE 4
CONDITION LIGHT TEST 28VDC 73
6V 400CPS LO 52
HI 61
(OPTICS POWER) 28VDC HI 71
28VDC LO 1
28V 800 CPS ± % HI TO PHOTOMETER 45
TO COMPUTER (TRACKER OPERATE) 42
TO AUTOMATIC MARK RELAY 31
S13 MARK
S4 TRACKER POWER
ON
OFF
S14 STAR LOS
LANDMARK LOS 0°
OFFSET 25°
SLAVE TELESCOPE
T1
LOW
MED
HI
S3 SPEED CONTROLLER
S11 OPTICS MODE SEE TABLE I
C
NO
NC
DIRECT
RESOLVED
S15 MODE CONTROLLER
E1
CW
R1 1.5K
CCW
S25
S25 OPERATES AT CW. POSITION OF R1
28VDC HI TRACKER POWER 96
TO (PSA) 0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
TO (M&DV) SLEW CONTROL 66
FROM CONT ELECT 26V 400 CPS 95
26V 400CPS SLEW 81
TO (M&DV)
STEP-UP-C 78
STEP-DOWN-C 79
26V 400CPS MOTOR EXCIT 68
S20 M&DV SINGLE FRAME DRIVE-UP
S21 M&DV SINGLE FRAME DRIVE DOWN
UP
DOWN
S9 M&DV FILM SLEW
S7 ZERO
S23 GAIN IRIG
S8 GAIN PIPA
OFF
LOW
MED
S18 MAP & DATA VIEWER POWER & BRIGHTNESS
S26 MARK REJECT
S19 ATTITUDE IMPULSE CONTROLLER
S16 IMU TEMP MODE SEE TABLE 2
T
P1
93 TO (M&DV) STEP DOWN-R
51 (M&DV & INTEGRAL LIGHTING POWER) 28VDC HI
106 TO (M&DV) STEP UP-R
67 28VDC HI
77 65 FROM CONT ELECT. 1.5V 400CPS
89 IRIG ZERO RESISTANCE
85 IRIG TEMP & BRIDGE AMPL MA16B-1 (PIN 6)
98 ACCEL TEMP & BRIDGE AMPL MA16B-1 (PIN 6)
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
86 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
53 FROM CONT ELECT. 6V 400CPS HI
PSA
83 SHIELD GRD
46 M&DV LAMP, LO INTENSITY
55 M&DV LAMP, HI INTENSITY
69 80 28V 800 CPS ± 1% LO HI
60 FROM PHOTOMETER
43 PHOTOMETER RESET
30 TO AUTO MARK RELAY
33 TO COMPUTER MARK REJECT
10 24 SIGNAL TO SHAFT DRIVE AMPS HI LO
8 22 SIGNAL TO TRUNNION DRIVE AMPS HI LO
2 TRACKER OPERATE 28VDC LO
108 TO DAC 28VDC HI
49 TO COMPUTER (DAC OPERATE)
70 TO DSKY ENABLES 28VDC LO
48 TO COMPUTER (ZERO OPTICS)
72 TO ZERO OPTICS RELAYS
47 FROM COMPUTER
16 ROLL (IN)
17 3 ROLL (OUT) LEFT RIGHT
5 4 PITCH (OUT) DOWN UP
18 PITCH (IN)
7 YAW (IN)
6 20 YAW (OUT) LEFT RIGHT
74 TEMP ALARM AMPL SIG 0VDC
92 TEMP ALARM AMPL (AR5-5)
90 EMERG HEATER CONTROL MOD (M1-1)
100 HEATER CURRENT AMPL (AR5-3)
88 ALARM & HEATER CONTROL (AR5-16)
87 PROPORTIONAL CONTROL (AR1-5)
101 ALARM RELAY (K2-3)
94 (FROM TEMP CONT) IMU POWER 0 VDC
76 ALARM RELAY (K2-6)
75 TEMP ALARM AMPL (AR5-14)
105 IRIG OR PIPA LO TEMP IND
(PSA)
13
12
11
10
9
8
7
6
F
E
D
C
B
A

F1

1014662

C	1014662	ZONE	REVISIONS TDRR 12538	

ZONE	SYM	DESCRIPTION	DATE	APPROVAL
	A	REVISED PER TDRR NO. 13029	1 OCT 64	W.K.
	B	REVISED PER TDRR NO. 13324	16 OCT 64	
	C	REVISE PER TDRR 17728	24 MAR 65	RJJ / AU


84 6V 400 CPS MODE LAMP TEST
54 400 CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
35 LO
34 HI
SCT TRUNNION MDA
107 IMU DELAY
29 GIMBAL LOCK, ZERO ENCODER, G&N FAIL CDU FAIL, IMU FAIL, ACCEL FAIL, 2 SPARES
62 G&N ERROR
39 COMPUTER POWER FAIL
38 IMU TEMP
COOLANT DISCONNECT INSPECTION LAMP
DS3
COOLANT DISCONNECT INSPECTION LAMP
DS4
DS12
LO
HI
P
H
A1
SEXTANT HAND CONTROLLER SCHEMATIC 1015075
S12
TRACKER
SEE NOTE 4
S5 CONDITION LAMPS
OFF
ON
9
19
27
DO NOT USE (FOR GSE ONLY)
82 CSC OPERATE
S15
MODE CONTROLLER
DIRECT
RESOLVED
S11
OPTICS MODE
SEE TABLE I
91 CHASSIS GRD
E1
S3
SPEED CONTROLLER
LOW
MED
HI
T1
CW
R1 1.5K
CCW
32
44
MAGAMP CONTROL
S25
26 28VDC LO (IMU POWER)
S25 OPERATES AT CCW POSITION OF R1
11
12
13
21
23
25
28
36
37
63
64
56
57
29
SPARES
S19
ATTITUDE IMPULSE CONTROLLER
S26
MARK REJECT
S16
IMU TEMP MODE
SEE TABLE 2
P1
NO
NC
C
T
46 M&DV LAMP, LO INTENSITY
55 M&DV LAMP, HI INTENSITY
69 LO
80 HI
28V 800 CPS ±1%
60 FROM PHOTOMETER
43 PHOTOMETER RESET
30 TO AUTO MARK RELAY
33 TO COMPUTER MARK REJECT
10 HI
24 LO
SIGNAL TO SHAFT DRIVE AMPS
8 HI
22 LO
SIGNAL TO TRUNNION DRIVE AMPS
2 TRACKER OPERATE 28VDC LO
108 TO DAC 28VDC HI
49 TO COMPUTER (DAC OPERATE)
70 TO DSKY ENABLES 28VDC LO
48 TO COMPUTER (ZERO OPTICS)
72 TO ZERO OPTICS RELAYS
47 FROM COMPUTER
16 ROLL (IN)
17 LEFT
3 RIGHT
ROLL (OUT)
5 DOWN
4 UP
PITCH (OUT)
18 PITCH (IN)
7 YAW (IN)
6 LEFT
20 RIGHT
YAW (OUT)
74 TEMP ALARM AMPL SIG OVDC
92 TEMP ALARM AMPL (AR5-5)
90 EMERG HEATER CONTROL MOD(MI-1)
100 HEATER CURRENT AMPL (AR3-5)
88 ALARM & BACKUP CONTROL (AR5-16)
87 PROPORTIONAL CONTROL (AR1-5)
101 ALARM RELAY (K2-3)
94 (FROM TEMP CONT) IMU POWER 0 VDC
76 ALARM RELAY (K2-6)
75 TEMP ALARM AMPL (AR5-14)
105 IRIG OR PIPA LO TEMP IND
(PSA)

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1021700-021	SEXTANT HAND CONT			
DS3	1010268-2	LAMP			
DS4	1010268-2	LAMP			
DS12	1010624-2	LAMP			
E1	1010638-6	TERMINAL LUG			
P1	1010825-4	CONNECTOR			
R1	1010764-2	POTENTIOMETER	1.5K	.	5W
S1	1010904-1	SWITCH, PUSH-BUTTON			
S2	1010904-2	PUSH-BUTTON			
S3	1010902-1	TOGGLE			
S4	1010905-1	TOGGLE			
S5	1010903-1	TOGGLE			
S7	1010904-1	PUSH-BUTTON			
S8	1010904-2	PUSH-BUTTON			
S9	1010903-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010906-4	ROTARY			
S12	1010907-2	PUSH-BUTTON			
S13	1010904-2	PUSH-BUTTON			
S14	1010902-1	TOGGLE			
S15	1010905-2	TOGGLE			
S16	1010906-2	ROTARY			
S17	1010904-1	PUSH-BUTTON			
S18	1010902-2	TOGGLE			
S19	1015048-011	IMPULSE			
S20	1010904-3	PUSH-BUTTON			
S21	1010904-3	PUSH-BUTTON			
S23	1010904-2	PUSH-BUTTON			
S25	1010901-1				
S26	1010904-1	SWITCH, PUSH-BUTTON			
T1	1010492	TRANSFORMER			

TABLE I
S11 OPTICS MODE SWITCH
(SHOWN IN MANUAL POSITION)

POSITION	DECK ACTUATED
ZERO OPTICS	1, 2
MANUAL	NONE
COMPUTER	3, 4, 5

TABLE 2
S16 IMU TEMP MODE SWITCH
(SHOWN IN AUTO OVERRIDE POSITION)

POSITION	DECK ACTUATED
AUTO OVERRIDE	3, 5, 6, 7
PROPORTIONAL	2, 6, 7
BACK-UP	1
EMERGENCY	4, 8

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION.
3. PARTIAL REFERENCE DESIGNATION ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. S12 IS A "PUSH ON" - "PUSH OFF" TYPE SWITCH, AND IS SHOWN IN THE "OFF" POSITION.

QTY REQD	PART OF IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS		

	1014664-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN E. Rotela DATE 7/27-64
CHECKED 9-14-64
APPROVAL 9/14/64
APPROVAL
NASA APPROVAL W. J. 9-15-64
MIT APPROVAL 9/15/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INDICATOR
CONTROL PANEL
SCHEMATIC DIAGRAM

CODE IDENT NO.	SIZE	NASA DRAWING NO.
	J	- 1014662
SCALE —	WT —	SHEET 1 OF 1

1014662	REV LTR	SH
	A	1

27 1014662

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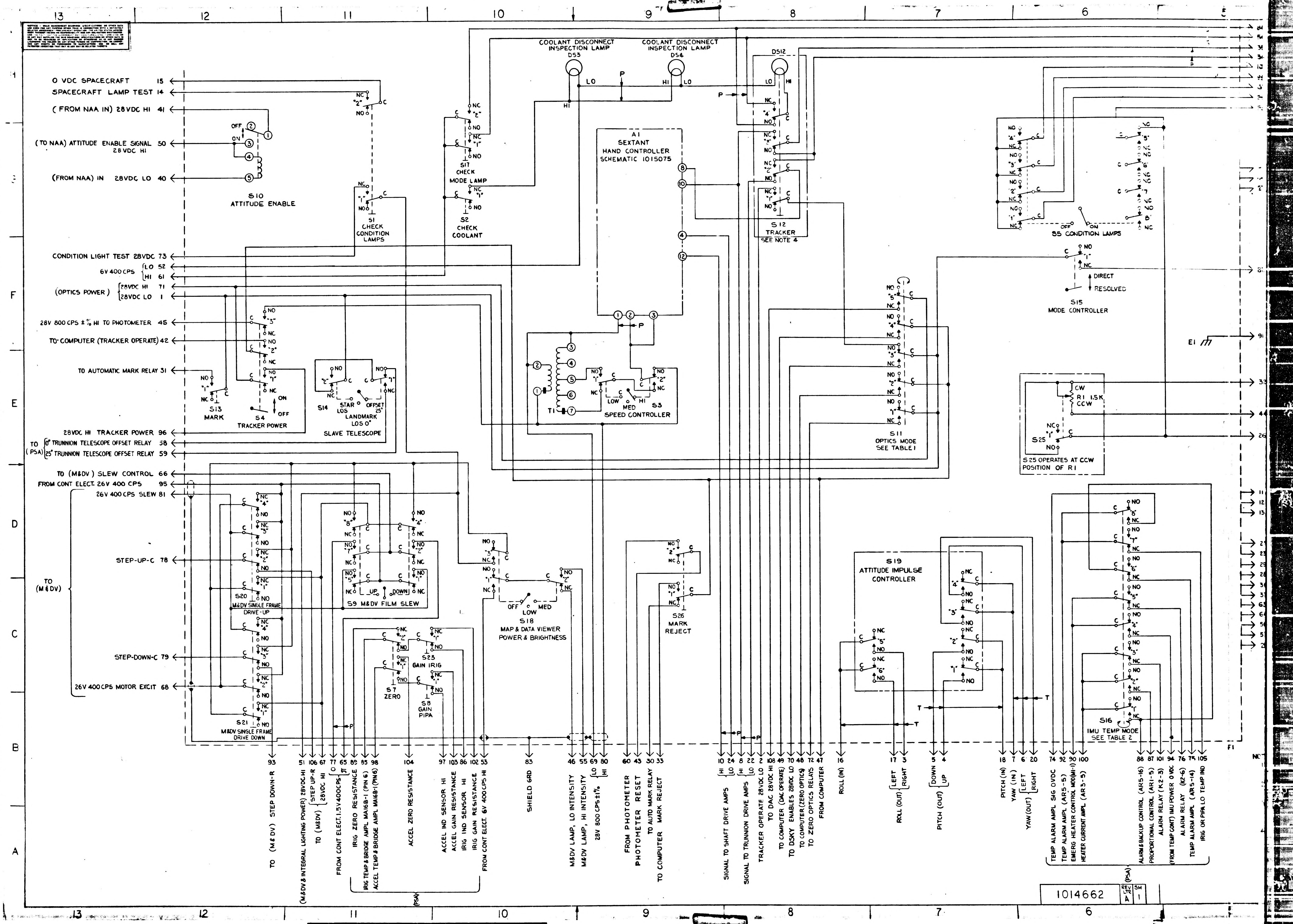
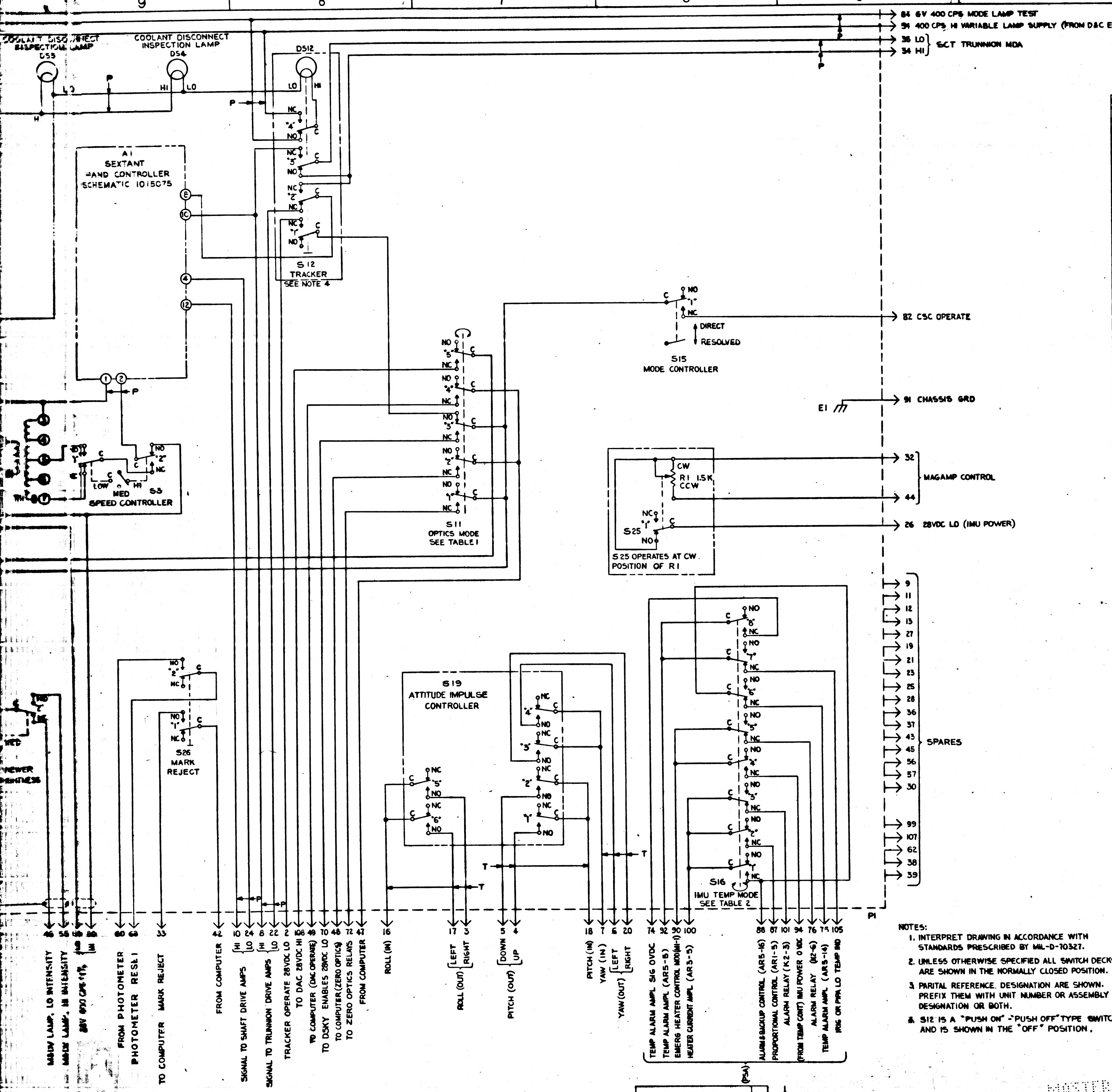

13
12
11
10
9
8
7
6
5
0 VDC SPACECRAFT 15
SPACECRAFT LAMP TEST 14
(FROM NAA IN) 28VDC HI 41
(TO NAA) ATTITUDE ENABLE SIGNAL 28VDC HI 50
(FROM NAA) IN 28VDC LO 40
S10
ATTITUDE ENABLE
OFF
ON
S1
CHECK CONDITION LAMPS
S17
CHECK MODE LAMP
S2
CHECK COOLANT
COOLANT DISCONNECT INSPECTION LAMP
DS3
COOLANT DISCONNECT INSPECTION LAMP
DS4
DS12
HI
LO
P
A1
SEXTANT
HAND CONTROLLER
SCHEMATIC 1015075
S12
TRACKER
SEE NOTE 4
S5 CONDITION LAMPS
S15
MODE CONTROLLER
DIRECT
RESOLVED
CONDITION LIGHT TEST 28VDC 73
6V 400 CPS LO 52
HI 61
(OPTICS POWER) 28VDC HI 71
28VDC LO 1
28V 800 CPS ± % HI TO PHOTOMETER 45
TO COMPUTER (TRACKER OPERATE) 42
TO AUTOMATIC MARK RELAY 31
S13
MARK
S4
TRACKER POWER
S14
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
SLAVE TELESCOPE
T1
LOW
MED
HI
S3
SPEED CONTROLLER
S11
OPTICS MODE
SEE TABLE 1
E1
CW
R1 1.5K
CCW
S25
S25 OPERATES AT CCW POSITION OF R1
28VDC HI TRACKER POWER 96
TO (PSA) 0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
TO (M&DV) SLEW CONTROL 66
FROM CONT ELECT. 26V 400 CPS 95
26V 400 CPS SLEW 81
STEP-UP-C 78
TO (M&DV)
STEP-DOWN-C 79
26V 400CPS MOTOR EXCIT 68
S20
M&DV SINGLE FRAME DRIVE-UP
S21
M&DV SINGLE FRAME DRIVE DOWN
S9 M&DV FILM SLEW
UP
DOWN
S7
ZERO
S25
GAIN IRIG
S8
GAIN PIPA
S18
MAP & DATA VIEWER POWER & BRIGHTNESS
OFF
LOW
MED
S26
MARK REJECT
S19
ATTITUDE IMPULSE CONTROLLER
S16
IMU TEMP MODE
SEE TABLE 2
T
F1
93 TO (M&DV) STEP DOWN-R
51 (M&DV & INTEGRAL LIGHTING POWER) 28VDC HI
106 TO (M&DV) STEP UP-R
67 28VDC HI
77 65 FROM CONT ELECT. 1.5V 400CPS
89 IRIG ZERO RESISTANCE
85 IRIG TEMP & BRIDGE AMPL MA16B-1 (PIN 6)
98 ACCEL TEMP & BRIDGE AMPL MA16B-1 (PIN 6)
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
86 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
53 FROM CONT ELECT. 6V 400 CPS HI
(PSA)
83 SHIELD GRD
46 M&DV LAMP, LO INTENSITY
55 M&DV LAMP, HI INTENSITY
69 80 28V 800 CPS ±1% LO HI
60 43 FROM PHOTOMETER PHOTOMETER RESET
30 TO AUTO MARK RELAY
33 TO COMPUTER MARK REJECT
10 24 SIGNAL TO SHAFT DRIVE AMPS HI LO
8 22 SIGNAL TO TRUNNION DRIVE AMPS HI LO
2 TRACKER OPERATE 28VDC LO
108 TO DAC 28VDC HI
49 TO COMPUTER (DAC OPERATE)
70 TO DSKY ENABLES 28VDC LO
48 TO COMPUTER (ZERO OPTICS)
72 TO ZERO OPTICS RELAYS
47 FROM COMPUTER
16 ROLL (IN)
17 3 ROLL (OUT) LEFT RIGHT
5 4 PITCH (OUT) DOWN UP
18 PITCH (IN)
7 YAW (IN)
6 20 YAW (OUT) LEFT RIGHT
74 TEMP ALARM AMPL SIG 0VDC
92 TEMP ALARM AMPL (AR5-5)
90 EMERG HEATER CONTROL MOD (M1-1)
100 HEATER CURRENT AMPL (AR3-5)
88 ALARM & BACKUP CONTROL (AR5-16)
87 PROPORTIONAL CONTROL (AR1-5)
101 ALARM RELAY (K2-3)
94 (FROM TEMP CONT) IMU POWER 0 VDC
76 ALARM RELAY (K2-6)
75 TEMP ALARM AMPL (AR5-14)
105 IRIG OR PIPA LO TEMP IND
(PSA)
84 54 34 14 12 5 81 91 33 44 26 11 12 13 21 23 25 28 30 31 63 64 56 57 2
A B C D E F
1014662
REV LTR A
SH 1

1/1014662


84 6V 400 CPS MODE LAMP TEST
51 400 CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
36 LO
34 HI
SCT TRUNNION MDA
COOLANT DISCONNECT INSPECTION LAMP
DS3
COOLANT DISCONNECT INSPECTION LAMP
DS4
DS12
LO
HI
P
NC
NO
S12
TRACKER
SEE NOTE 4
A1
SEXTANT
HAND CONTROLLER
SCHEMATIC 1015075
LOW
MED
HI
S3
SPEED CONTROLLER
S11
OPTICS MODE
SEE TABLE 1
S15
MODE CONTROLLER
DIRECT
RESOLVED
82 CSC OPERATE
E1
91 CHASSIS GRD
CW
R1 1.5K
CCW
S25
S25 OPERATES AT CW POSITION OF R1
32
44
MAGAMP CONTROL
26 28VDC LO (IMU POWER)
SPARES
S26
MARK
REJECT
S19
ATTITUDE IMPULSE
CONTROLLER
S16
IMU TEMP MODE
SEE TABLE 2
P1
T
46
55
80
60
62
33
42
10
24
8
22
2
108
49
70
48
72
47
16
17
3
5
4
18
7
6
20
74
92
90
100
88
87
101
94
76
75
105
MAIN LAMP, LO INTENSITY
MAIN LAMP, HI INTENSITY
LO
HI
FROM PHOTOMETER
PHOTOMETER RESET
TO COMPUTER MARK REJECT
FROM COMPUTER
HI
LO
SIGNAL TO SHAFT DRIVE AMPS
HI
LO
SIGNAL TO TRUNNION DRIVE AMPS
TRACKER OPERATE 28VDC LO
TO DAC 28VDC HI
TO COMPUTER (DAC OPERATE)
TO DSKY ENABLES 28VDC LO
TO COMPUTER (ZERO OPTICS)
TO ZERO OPTICS RELAYS
FROM COMPUTER
ROLL (IN)
LEFT
RIGHT
ROLL (OUT)
DOWN
UP
PITCH (OUT)
PITCH (IN)
YAW (IN)
LEFT
RIGHT
YAW (OUT)
TEMP ALARM AMPL SIG OVDC
TEMP ALARM AMPL (AR5-5)
EMERG HEATER CONTROL MOD(MI-1)
HEATER CURRENT AMPL (AR3-5)
ALARM & BACKUP CONTROL (AR5-16)
PROPORTIONAL CONTROL (AR1-5)
ALARM RELAY (K2-3)
(FROM TEMP CONT) IMU POWER 0 VDC
ALARM RELAY (K2-6)
TEMP ALARM AMPL (AR5-14)
IRIG OR PIPA LO TEMP IND
(PSA)

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1021700	SEXTANT HAND CONT			
DS3	1010268-2	LAMP			
DS4	1010268-2	LAMP			
DS12	1010624-2	LAMP			
E1	1010638-6	TERMINAL LUG			
P1	1010347-1	CONNECTOR			
R1	1010764-2	POTENTIOMETER	1.5K		5W
S1	1010480-3	SWITCH, PUSH-BUTTON			
S2	1010480-2	PUSH-BUTTON			
S3	1010478-1	TOGGLE			
S4	1010484-1	TOGGLE			
S7	1010480-1	PUSH-BUTTON			
S8	1010480-2	PUSH-BUTTON			
S9	1010479-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010494-4	ROTARY			
S12	1010627-2	PUSH-BUTTON			
S13	1010480-2	PUSH-BUTTON			
S14	1010478-1	TOGGLE			
S15	1006820-2	TOGGLE			
S16	1010494-2	ROTARY			
S17	1010480-1	PUSH-BUTTON			
S18	1010478-2	TOGGLE			
S19	1015048-011	IMPULSE			
S20	1010480-3	PUSH-BUTTON			
S21	1010480-3	PUSH-BUTTON			
S23	1010480-2	PUSH-BUTTON			
S25	1010435-001				
S26	1010480-1	SWITCH, PUSH-BUTTON			
T1	1010492	TRANSFORMER			

TABLE 1
S11 OPTICS MODE SWITCH
(SHOWN IN MANUAL POSITION)

POSITION	DECK ACTUATED
ZERO OPTICS	1, 2
MANUAL	NONE
COMPUTER	3, 4, 5

TABLE 2
S16 IMU TEMP MODE SWITCH
(SHOWN IN AUTO OVERRIDE POSITION)

POSITION	DECK ACTUATED
AUTO OVERRIDE	3, 5, 6, 7
PROPORTIONAL	2, 6, 7
BACK-UP	1
EMERGENCY	4, 8

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION.
3. PARITAL REFERENCE. DESIGNATION ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. S12 IS A "PUSH ON" - "PUSH OFF" TYPE SWITCH, AND IS SHOWN IN THE "OFF" POSITION.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS		

	1014669-011
NEXT ASSY	USED ON
APPLICATION	

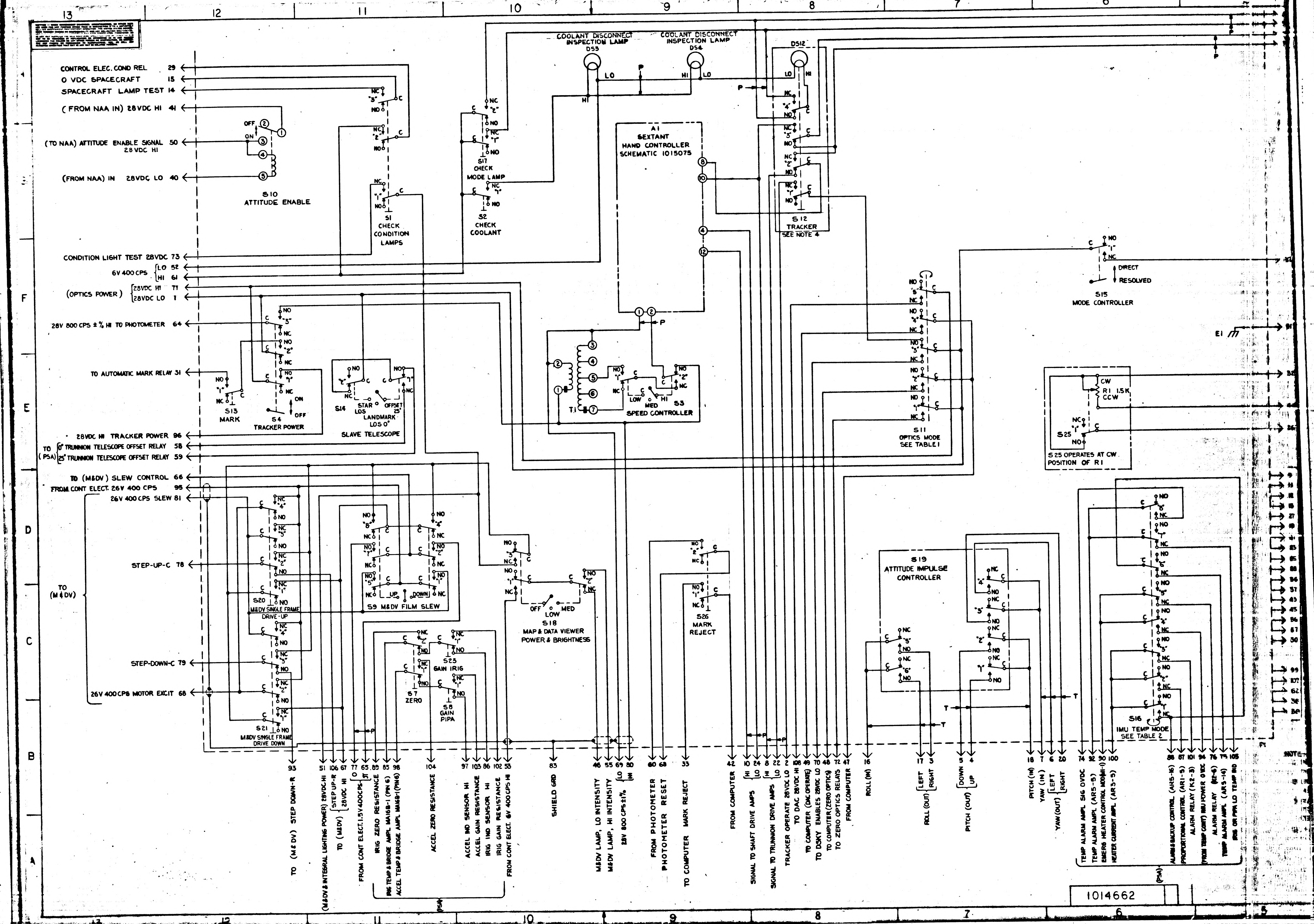
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DRAWN R. Bohle DATE 7/27-6
CHECKED F. J. Barkers 9-14-6
APPROVAL
APPROVAL
NASA APPROVAL W J Blair 9-16-64
MIT APPROVAL L Wetzel 9/16/64

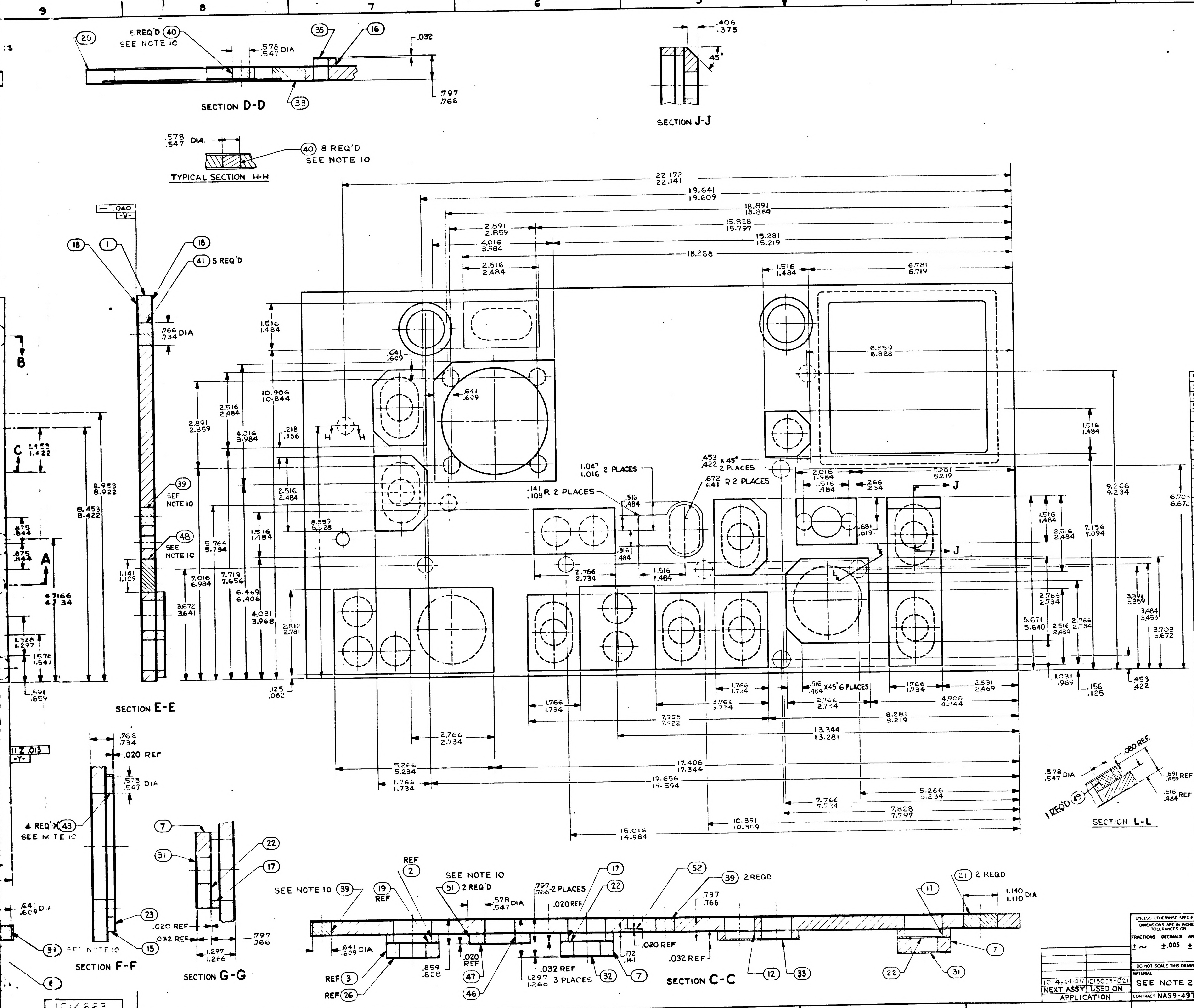
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INDICATOR
CONTROL PANEL
SCHEMATIC DIAGRAM

CODE IDENT NO. | SIZE J | NASA DRAWING NO. - 1014662
SCALE | WT | SHEET | OF


13
12
11
10
9
8
7
6
CONTROL ELEC. COND REL 29
0 VDC SPACECRAFT 15
SPACECRAFT LAMP TEST 14
(FROM NAA IN) 28VDC HI 41
(TO NAA) ATTITUDE ENABLE SIGNAL 28VDC HI 50
(FROM NAA) IN 28VDC LO 40
OFF
ON
S10 ATTITUDE ENABLE
S1 CHECK CONDITION LAMPS
S17 CHECK MODE LAMP
S2 CHECK COOLANT
COOLANT DISCONNECT INSPECTION LAMP DS5
COOLANT DISCONNECT INSPECTION LAMP DS4
DS12
LO
HI
P
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1015075
S12 TRACKER SEE NOTE 4
CONDITION LIGHT TEST 28VDC 73
6V 400 CPS LO 52
HI 61
(OPTICS POWER) 28VDC HI 71
28VDC LO 1
28V 800 CPS ± % HI TO PHOTOMETER 64
TO AUTOMATIC MARK RELAY 31
S13 MARK
S4 TRACKER POWER
S14 STAR LOS
LANDMARK LOS 0°
OFFSET 25°
SLAVE TELESCOPE
T1
LOW
MED
HI
S3 SPEED CONTROLLER
S11 OPTICS MODE SEE TABLE 1
S15 MODE CONTROLLER
DIRECT
RESOLVED
E1
R1 1.5K
CW
CCW
S25
S25 OPERATES AT CW POSITION OF R1
28VDC HI TRACKER POWER 96
TO (PSA) 0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
TO (M&DV) SLEW CONTROL 66
FROM CONT ELECT. 26V 400 CPS 95
26V 400 CPS SLEW 81
TO (M&DV)
STEP-UP-C 78
STEP-DOWN-C 79
26V 400 CPS MOTOR EXCIT 68
S20 M&DV SINGLE FRAME DRIVE-UP
S21 M&DV SINGLE FRAME DRIVE DOWN
S9 M&DV FILM SLEW
UP
DOWN
S7 ZERO
S23 GAIN IRIG
S8 GAIN PIPA
S18 MAP & DATA VIEWER POWER & BRIGHTNESS
OFF
LOW
MED
S26 MARK REJECT
S19 ATTITUDE IMPULSE CONTROLLER
S16 IMU TEMP MODE SEE TABLE 2
NC
NO
C
93 TO (M&DV) STEP DOWN-R
51 (M&DV & INTEGRAL LIGHTING POWER) 28VDC HI
106 TO (M&DV) STEP UP-R
67 28VDC HI
77 65 FROM CONT ELECT. 1.5V 400CPS
83 IRIG ZERO RESISTANCE
85 IRIG TEMP & BRIDGE AMPL MA16B-1 (PIN 6)
98 ACCEL TEMP & BRIDGE AMPL MA16B-1 (PIN 6)
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
86 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
53 FROM CONT ELECT. 6V 400 CPS HI
(PSA)
83 SHIELD GRD
46 M&DV LAMP, LO INTENSITY
55 M&DV LAMP, HI INTENSITY
69 80 28V 800 CPS ±1% LO HI
60 FROM PHOTOMETER
68 PHOTOMETER RESET
33 TO COMPUTER MARK REJECT
42 FROM COMPUTER
10 24 SIGNAL TO SHAFT DRIVE AMPS HI LO
8 22 SIGNAL TO TRUNNION DRIVE AMPS HI LO
2 TRACKER OPERATE 28VDC LO
108 TO DAC 28VDC HI
49 TO COMPUTER (DAC OPERATE)
70 TO DSKY ENABLES 28VDC LO
48 TO COMPUTER (ZERO OPTICS)
72 TO ZERO OPTICS RELAYS
47 FROM COMPUTER
16 ROLL (IN)
17 3 ROLL (OUT) LEFT RIGHT
5 4 PITCH (OUT) DOWN UP
18 PITCH (IN)
7 YAW (IN)
6 20 YAW (OUT) LEFT RIGHT
T
74 TEMP ALARM AMPL SIG 0VDC
32 TEMP ALARM AMPL (AR5-5)
90 EMERG HEATER CONTROL MOD(M-1)
100 HEATER CURRENT AMPL (AR3-5)
88 ALARM & BACKUP CONTROL (AR5-16)
87 PROPORTIONAL CONTROL (AR1-5)
101 ALARM RELAY (K2-3)
94 (FROM TEMP CONT) IMU POWER 0 VDC
76 ALARM RELAY (K2-6)
75 TEMP ALARM AMPL (AR5-14)
105 IRIG OR PIPA LO TEMP IND
(PSA)
NOTE
1014662

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER TDRR 15565		26 JAN 65	JWP


SECTION D-D
8 REQ'D (40) SEE NOTE 10
.578 .547 DIA
(20) (35) (16) (38)
.032
.797 .766
SECTION J-J
.406 .375
45°
TYPICAL SECTION H-H
.578 .547 DIA.
(40) 8 REQ'D SEE NOTE 10
SECTION E-E
(18) (1) (18) (41) 5 REQ'D
.040 -V-
.766 .734 DIA
(39) SEE NOTE 10
(48) SEE NOTE 10
B
C
A
22.172 22.141
19.641 19.609
18.891 18.859
15.828 15.797
15.281 15.219
18.268
2.891 2.859
4.016 3.984
2.516 2.484
1.516 1.484
6.781 6.719
6.859 6.828
1.047 1.016 2 PLACES
.141 .109 R 2 PLACES
.672 .641 R 2 PLACES
.453 .422 X 45° 2 PLACES
.516 .484 X 45° 6 PLACES
9.266 9.234
7.156 7.094
6.703 6.672
10.906 10.844
8.953 8.922
8.453 8.422
4.766 4.734
17.406 17.344
19.656 19.594
15.016 14.984
13.344 13.281
10.391 10.359
8.281 8.219
7.953 7.922
7.828 7.797
7.766 7.734
5.266 5.234
J
SECTION F-F
4 REQ'D (43) SEE NOTE 10
.020 REF
.578 .547 DIA
(23) (15) (3)
SECTION G-G
(7) (31) (22) (17)
.020 REF
.032 REF
1.297 1.266
.797 .766
SECTION C-C
SEE NOTE 10 (39)
(19) REF
REF (2)
SEE NOTE 10
(51) 2 REQ'D
.578 .547 DIA
.797 .766 2 PLACES
(17) (22) (52)
(39) 2 REQD
(21) 2 REQD
1.140 1.110 DIA
.641 .609 DIA
REF (3)
REF (26)
(47) (46) (32) (7) (12) (33) (22) (31) (7)
.032 REF 3 PLACES
SECTION L-L
1 REQ'D (49)
.578 .547 DIA
.080 REF.
.891 .859 REF
.516 .484 REF
1014663

54	1	1014663-054	FACE-PAD
53	1	↑ -053	RING
52	1	-052	FACE-PAD
51	2	1014663-051	INSERT CORE PAD
50	4	NAS1394C-3L	INSERT-THREADED, SELF-LOCKING
49	1	↑ -049	INSERT CORE PAD
48	1	-048	INSERT-CORE, PANEL
47	1	-047	FACE-PAD
46	1	1014663-046	CORE-HONEYCOMB, PAD
45	14	1000115-3	↑
44	20	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	↑ -043	INSERT-CORE, PAD
42	1	-042	↑
41	11	-041	
40	13	-040	
39	7	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	FACE-PAD
36	1	-036	↑
35	1	-035	
34			
33	1	-033	
32	1	-032	
31	3	-031	
30	1	-030	
29	1	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	3	-022	FACE-PAD
21	2	-021	INSERT CORE PANEL
20	1	-020	INSERT CORE PANEL
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	3	-017	↑
16	1	-016	
15	1	-015	
14			
13	1	-013	
12	1	-012	
11	1	-011	
10			
9			
8	1	-008	
7	3	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014663-001	CORE-HONEYCOMB, PANEL
ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

1014664-011	1015023-021
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±~ DECIMALS ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R Rehm DATE 8-13-64
CHECKED 7/24/64
APPROVAL 7/24/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO | SIZE J | 1014663
SCALE 1:1 | SHEET 1 OF 2

2/1014663

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL:
   A. ITEMS 1 THRU 17 AND ITEM 46:
      HONEYCOMB IN ACCORDANCE WITH MIL-C-7438, $\genfrac{}{}{0pt}{}{.14}{.129}$ CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER QQ-A-250/8 (5052-H39), 4.5 DENSITY CORE.
   1 B. ITEMS 18, 19, 22, 23, 24, 25, 47 & 52:
      .020 THK AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
   1 C. ITEMS 26 THRU 35 AND ITEM 54:
      .032 THK AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
   1 D. ITEMS 36 & 37
      .080 THK AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
   1 E. ITEM 53:
      AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3) (ES-2104).
   F. ITEMS 20, 21, 38 THRU 43 AND 48, 49 & 51:
      AL ALY PER QQ-A-225/6, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

3. ADHESIVE:
   A. ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

4. UNLESS OTHERWISE SPECIFIED:
   A. ALL EDGES MUST BE .005 TO .015 R OR CHAMFER. SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{}^{125}$.
   B. ALL EDGES ON SURFACE V AND ON BUILD UPS ON OPPOSITE SIDE MUST BE .030 TO .040 RADIUS.

5. MUST BE FREE FROM BURRS.

6. FINISH:
   1 A. CHEMICAL FILM PER MIL-A-8625 TYPE II.
   B. APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).
   2 C. APPLY TT-E-527(ES-2602) LUSTERLESS ENAMEL (GREY), COLOR NO. 36231 OF FED-STD-595, TO FRONT AND SIDES OF PANEL, PER ND1002110.
   2 D. CHARACTERS, BORDER LINES, POSITION MARKS AND ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE) ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS OTHERWISE SPECIFIED CHARACTERS TO BE $\genfrac{}{}{0pt}{}{.141}{.109}$ HIGH FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE AS SHOWN. BORDER LINES, POSITION MARKS AND ARROWS TO BE $\genfrac{}{}{0pt}{}{.047}{.014}$ WIDE.

7. IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND 1002019.

8. CHARACTERS ON REAR OF PANEL, EXCEPT MFR'S SYMBOL, TO BE MARKED IN $\genfrac{}{}{0pt}{}{.141}{.109}$ HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019.

9. BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177.

10. TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 THRU 51 IS ±.031 HOLE LOCATIONS SHALL BE AS SPECIFIED.

11. SERIALIZE PER ND 1002023

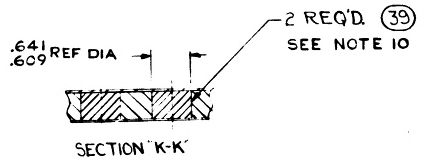
12. $\genfrac{}{}{0pt}{}{.169}{.165}$ DIA, $\genfrac{}{}{0pt}{}{.344}{.312}$ DEEP, # 10-32 UNF-2B THD
    $\genfrac{}{}{0pt}{}{.205}{.190}$ DEEP, 82° CSK TO .194 DIA
    INSTALL ITEM 44 .010 TO .030 BELOW
    EXPOSED SURFACE OF FACE, 22 HOLES

13. $\genfrac{}{}{0pt}{}{.194}{.190}$ DIA, $\genfrac{}{}{0pt}{}{.391}{.359}$ DEEP, # 12-28 UNF-2B THD $\genfrac{}{}{0pt}{}{.225}{.210}$ DEEP
    82° CSK TO .220 DIA INSTALL ITEM 45 .010 TO .030
    BELOW EXPOSED SURFACE OF FACE, 11 HOLES

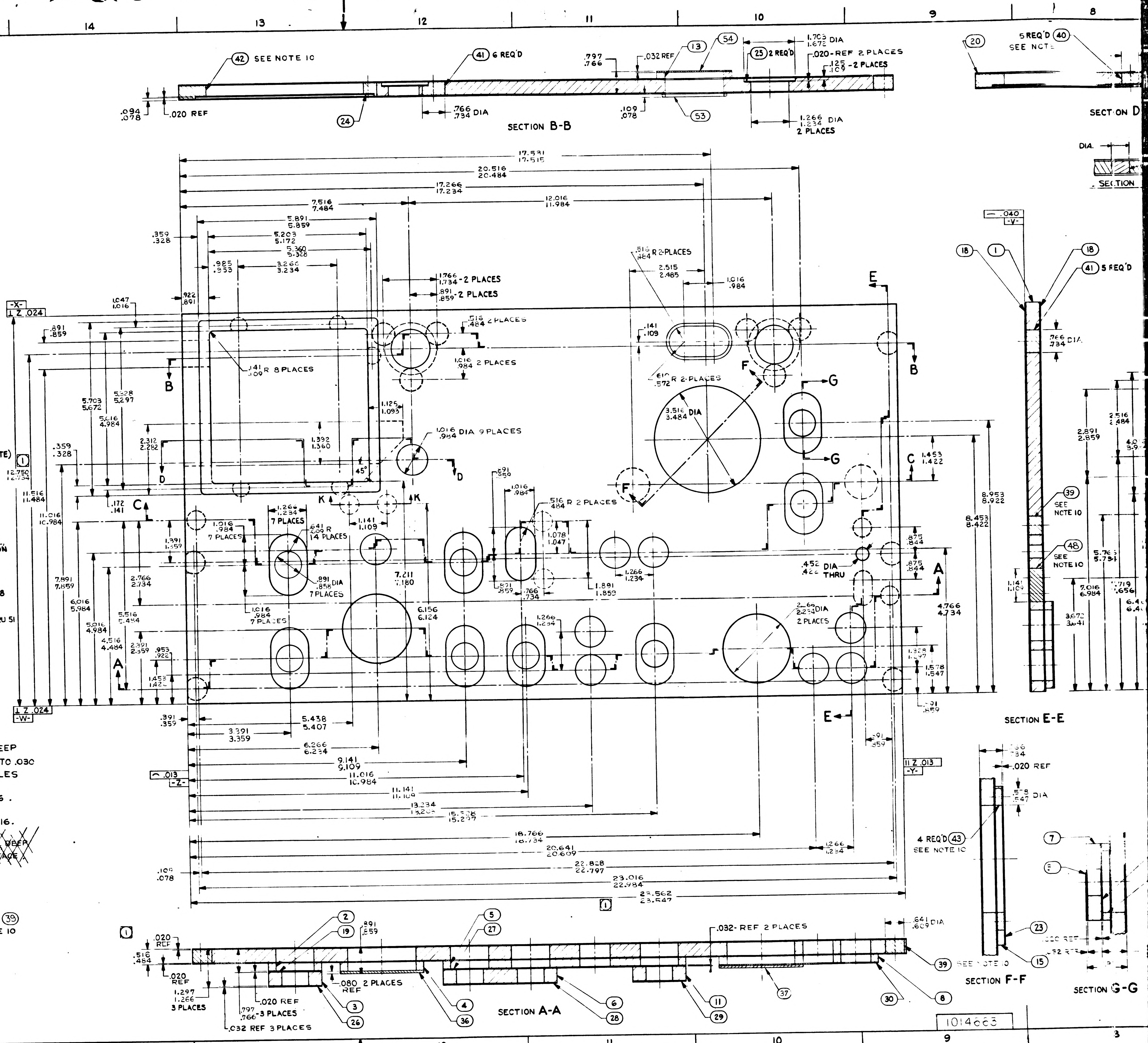
14. 1 CONTROLLED BY ICD MH01-01004-116.

15. 2 CONTROLLED BY ICD MH01-01046-416.

16 ~~$\genfrac{}{}{0pt}{}{.2}{.203}$ DIA THRU, C'BORE $\genfrac{}{}{0pt}{}{.319}{.308}$ DIA # .375 UNC 2B THD $\genfrac{}{}{0pt}{}{.359}{.334}$ DEEP INSTALL ITEM 50 .010 TO .030 BELOW EXPOSED SURFACE.~~



.641
.609 REF DIA
2 REQ'D. 39
SEE NOTE 10
SECTION K-K



16
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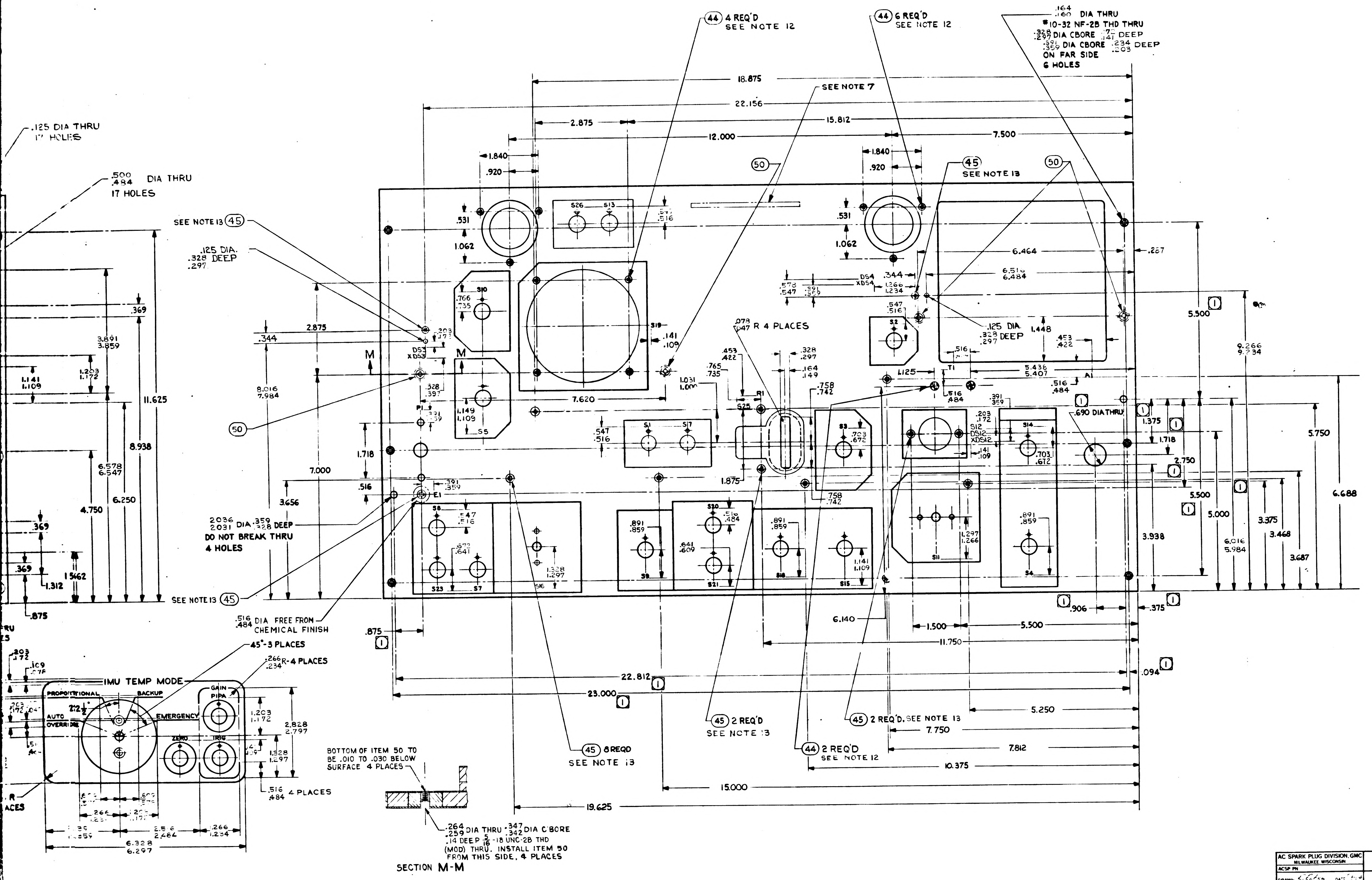
12
11
10
9
8
H
G
F
E
D
C
B
A
42 SEE NOTE 10
41 6 REQ'D
SECTION B-B
SECTION D
SECTION E-E
SECTION F-F
SECTION A-A
SECTION G-G
5 REQ'D 40
SEE NOTE 10
17.531
17.515
20.516
20.484
17.266
17.234
12.016
11.984
3.516
3.484 DIA
1.016 DIA 9 PLACES
.141
.109 R 8 PLACES
.641
.609 R 14 PLACES
.891
.859 DIA 7 PLACES
23.562
23.547
23.016
22.984
22.828
22.797
-X-
⊥ Z .024
-W-
-Y-
-Z-
4 REQ'D 43
SEE NOTE 10
2 REQ'D 39
SEE NOTE 10
.032 REF 2 PLACES
.080 2 PLACES REF
.032 REF 3 PLACES
1014663

1/1014663

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		REVISED PER TDRR 15565		26 JAN 65	



.125 DIA THRU
17 HOLES
.500 .484 DIA THRU
17 HOLES
SEE NOTE 13 (45)
.125 DIA. .328 .297 DEEP
(44) 4 REQ'D SEE NOTE 12
(44) 6 REQ'D SEE NOTE 12
.164 .160 DIA THRU
*10-32 NF-2B THD THRU
.328 .297 DIA CBORE .172 .141 DEEP
.391 .359 DIA CBORE .234 .203 DEEP ON FAR SIDE
6 HOLES
SEE NOTE 7
(50)
(45) SEE NOTE 13
18.875
22.156
2.875
15.812
12.000
7.500
1.840
.920
.531
1.062
6.464
6.516 6.484
.287
5.500
9.266 9.234
.078 .047 R 4 PLACES
.125 DIA .328 .297 DEEP
1.448
5.438 5.407
.690 DIA THRU
7.620
7.000
1.718
6.688
5.750
5.000
3.938
3.375
3.468
3.687
6.016 5.984
11.625
8.938
6.250
4.750
6.578 6.547
3.891 3.859
8.016 7.984
3.656
2036 2031 DIA .359 .328 DEEP
DO NOT BREAK THRU
4 HOLES
SEE NOTE 13 (45)
.516 .484 DIA FREE FROM CHEMICAL FINISH
45°-3 PLACES
.266 .234 R-4 PLACES
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO
OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
TRIG
.516 .484 4 PLACES
6.328 6.297
2.828 2.797
BOTTOM OF ITEM 50 TO BE .010 TO .030 BELOW SURFACE 4 PLACES
.264 .259 DIA THRU .347 .342 DIA C'BORE
.14 DEEP 5/16-18 UNC-2B THD (MOD) THRU. INSTALL ITEM 50 FROM THIS SIDE. 4 PLACES
SECTION M-M
M
(45) 8 REQD SEE NOTE 13
(45) 2 REQ'D SEE NOTE 13
(44) 2 REQ'D SEE NOTE 12
(45) 2 REQ'D, SEE NOTE 13
.875
22.812
23.000
6.140
1.500
5.500
11.750
.906
.375
.094
5.250
7.750
7.812
10.375
15.000
19.625
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
S21
S23
S25
S26
DS3 XDS3
DS4 XDS4
DS12 XDS12
E1
P1
R1
T1

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN L. Eoker DATE

CHECKED

APPROVAL

APPROVAL

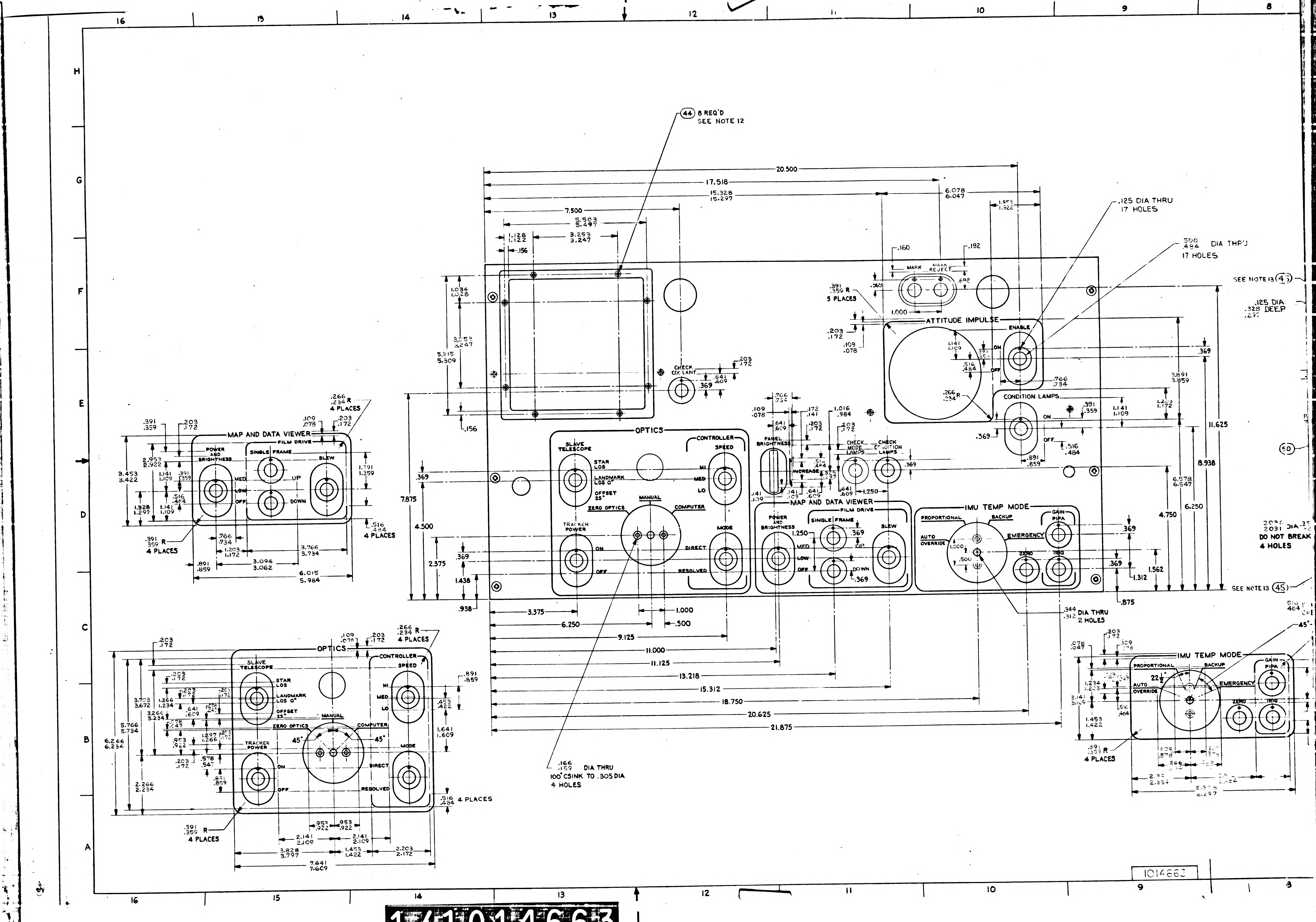
NASA APPROVAL

MIT APPROVAL

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

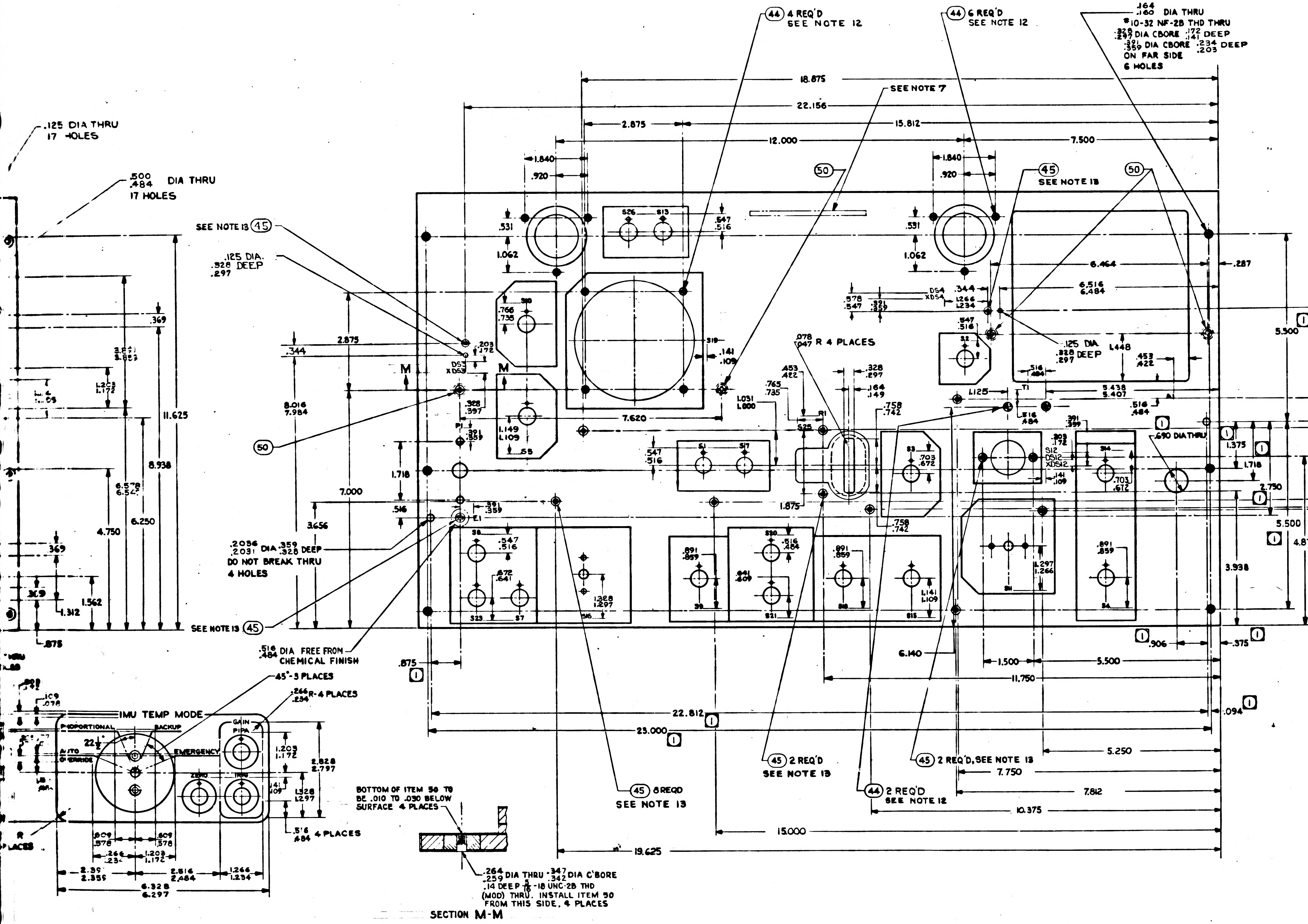
CODE IDENT NO | SIZE J | 1014663

SCALE 1:1 | SHEET 2 OF 2



16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
(44) 8 REQ'D
SEE NOTE 12
20.500
17.518
15.328
15.297
6.078
6.047
7.500
5.503
5.497
3.253
3.247
1.128
1.122
.156
.125 DIA THRU
17 HOLES
.500
.484 DIA THRU
17 HOLES
SEE NOTE 13 (45)
.125 DIA
.328 DEEP
.297
MARK
MARK REJECT
ATTITUDE IMPULSE
ENABLE
ON
OFF
CONDITION LAMPS
CHECK COOLANT
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
ZERO OPTICS
MANUAL
COMPUTER
TRACKER POWER
CONTROLLER
SPEED
HI
MED
LO
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
UP
DOWN
LOW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
TRIG
.344
.312 DIA THRU
2 HOLES
.166
.159 DIA THRU
100° CSINK TO .305 DIA
4 HOLES
.391
.359 R
5 PLACES
.391
.359 R
4 PLACES
.266
.234 R
4 PLACES
.516
.484
4 PLACES
DO NOT BREAK
4 HOLES
SEE NOTE 13 (45)
(50)
45°
22½°
3.375
6.250
9.125
11.000
11.125
13.218
15.312
18.750
20.625
21.875
1.000
.500
11.625
8.938
6.250
4.750
7.875
4.500
2.375
1.438
.938
.875
6.015
5.984
7.641
7.609
1014663

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		REVISED PER TDRR 15565		26 JAN 65	
B		REVISED PER TDRR 17699	—	4 APR 65	


.125 DIA THRU
17 HOLES
.500
.484 DIA THRU
17 HOLES
SEE NOTE 13 (45)
.125 DIA.
.328 DEEP
.297
(44) 4 REQ'D
SEE NOTE 12
(44) 6 REQ'D
SEE NOTE 12
.164
.160 DIA THRU
*10-32 NF-2B THD THRU
.328
.297 DIA CBORE .172
.141 DEEP
.391
.359 DIA CBORE .234
.203 DEEP
ON FAR SIDE
6 HOLES
SEE NOTE 7
(50)
(45)
SEE NOTE 13
18.875
22.156
2.875
15.812
12.000
7.500
1.840
.920
.531
1.062
.647
.516
.141
.109
6.464
6.516
6.484
.287
.344
1.266
1.234
DS4
XDS4
.578
.547
.391
.359
.125 DIA
.328
.297 DEEP
1.448
.453
.422
5.438
5.407
.516
.484
1.125
T1
.078
.047 R 4 PLACES
.453
.422
.328
.297
.164
.149
.765
.735
1.031
1.000
R1
.525
.758
.742
7.620
.766
.735
.203
.172
DS3
XDS3
M
M
.328
.397
P1
.391
.359
1.149
1.109
8.016
7.984
7.000
1.718
.516
3.656
.391
.359
E1
11.625
8.938
6.250
4.750
6.578
6.547
1.203
1.172
3.871
3.853
.369
1.562
1.312
.875
.2036
.2031 DIA .359
.328 DEEP
DO NOT BREAK THRU
4 HOLES
SEE NOTE 13 (45)
.516
.484 DIA FREE FROM
CHEMICAL FINISH
(50)
S26
S13
S18
S19
S1
S17
S3
S12
DS12
XDS12
S14
S8
S23
S7
S16
S9
S20
S21
S10
S15
S11
S4
S2
.547
.516
.672
.641
1.328
1.297
.891
.859
.641
.609
.516
.484
1.297
1.266
1.141
1.109
.703
.672
.703
.672
.141
.109
.391
.359
.690 DIA THRU
1.375
1.718
2.750
5.500
9.266
9.234
5.750
5.500
4.875
6.016
5.984
3.375
3.468
3.687
6.688
3.938
1.875
.906
.375
.875
6.140
1.500
5.500
11.750
22.812
23.000
.094
5.250
7.750
7.812
10.375
15.000
19.625
(45) 2 REQ'D
SEE NOTE 13
(45) 2 REQ'D, SEE NOTE 13
(44) 2 REQ'D
SEE NOTE 12
(45) 8 REQ'D
SEE NOTE 13
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO
OVERRIDE
EMERGENCY
22½°
GAIN
PIPA
ZERO
45°-3 PLACES
.266
.234 R-4 PLACES
1.203
1.172
2.828
2.797
.141
.109
1.328
1.297
.516
.484 4 PLACES
.609
.578
.266
.234
1.203
1.172
2.516
2.484
1.266
1.234
6.328
6.297
BOTTOM OF ITEM 50 TO
BE .010 TO .030 BELOW
SURFACE 4 PLACES
.264
.259 DIA THRU .347
.342 DIA C'BORE
.14 DEEP 5/16-18 UNC-2B THD
(MOD) THRU. INSTALL ITEM 50
FROM THIS SIDE, 4 PLACES

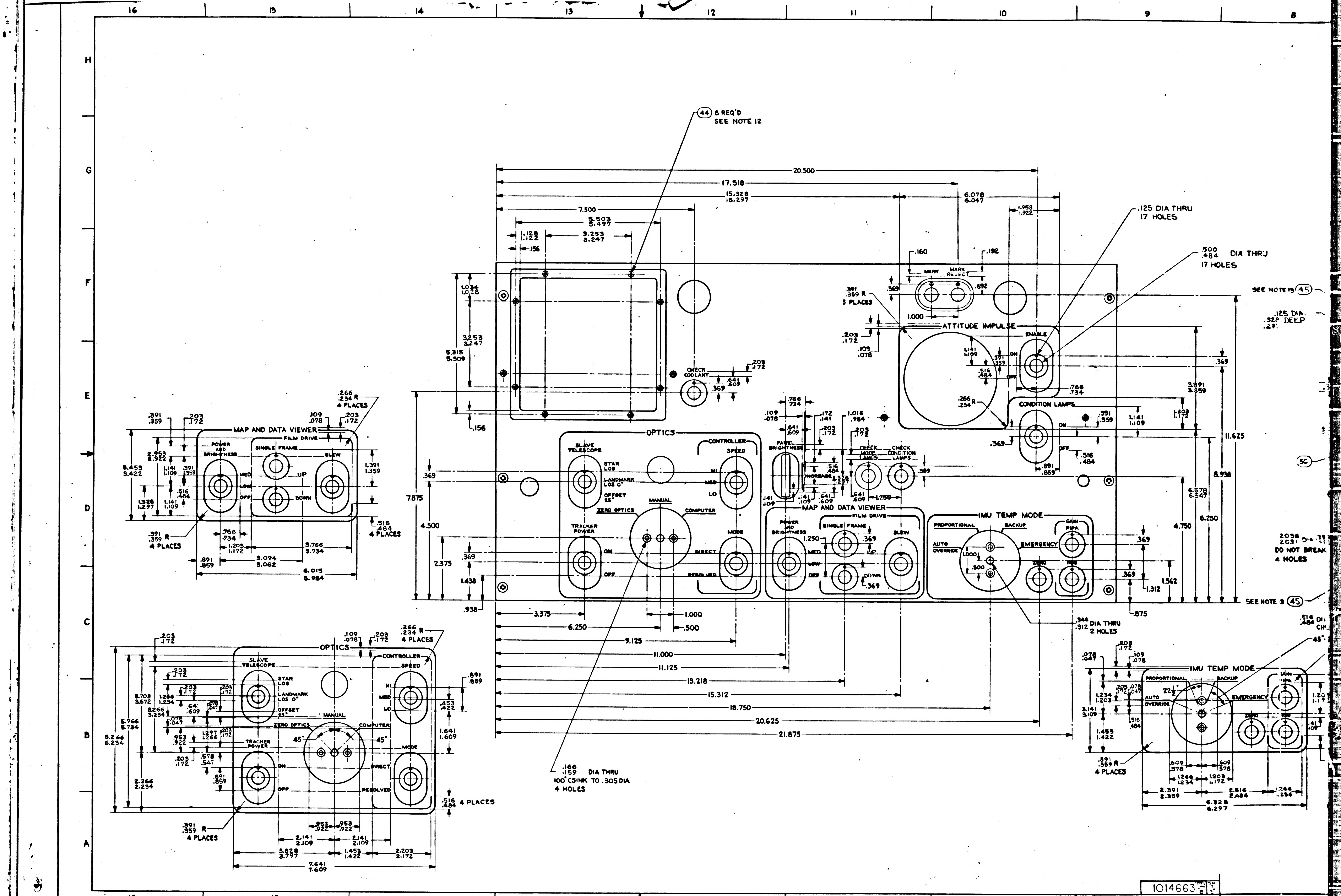
SECTION M-M

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN L. Cotta DATE 9/1964
CHECKED E. J. Fischer 9/24/64
APPROVAL
APPROVAL
NASA APPROVAL 12-22-64
INT APPROVAL 22 Dec 64

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

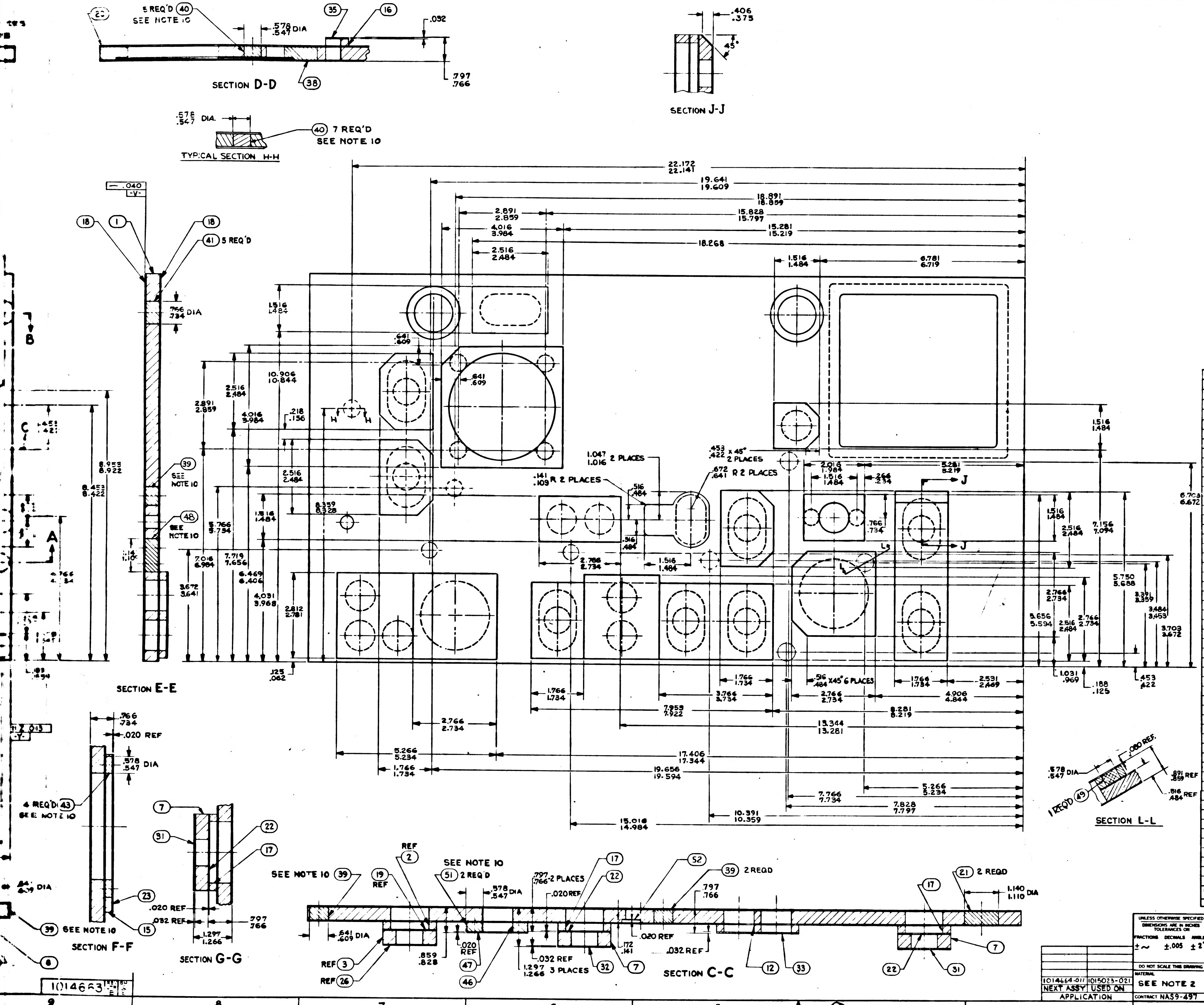
CODE IDENT NO.
SIZE J
1014663
SCALE 1:1
SHEET 2 OF 2



16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
(44) 8 REQ'D
SEE NOTE 12
20.500
17.518
15.328
15.297
6.078
6.047
7.500
5.503
5.497
1.953
1.922
1.128
1.122
3.253
3.247
.156
.125 DIA THRU
17 HOLES
.500
.484 DIA THRU
17 HOLES
SEE NOTE 13 (45)
.125 DIA.
DEEP
.160
.192
MARK
MARK REJECT
.692
.369
1.000
.391
.359 R
5 PLACES
.203
.172
.109
.078
ATTITUDE IMPULSE
ENABLE
ON
OFF
1.141
1.109
.516
.484
.266
.234 R
CONDITION LAMPS
.766
.734
.891
.859
1.208
1.172
3.891
3.859
11.625
8.938
6.578
6.547
6.250
4.750
CHECK COOLANT
.641
.609
1.034
1.028
3.253
3.247
5.315
5.309
7.875
4.500
2.375
1.438
.938
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
CONTROLLER
SPEED
HI
MED
LO
MANUAL
ZERO OPTICS
COMPUTER
TRACKER POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
1.016
.984
CHECK MODE LAMPS
CHECK CONDITION LAMPS
1.250
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
UP
DOWN
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
IRIG
1.000
.500
1.562
1.312
.875
SEE NOTE 3 (45)
.2036
.2031 DIA
DO NOT BREAK
4 HOLES
3.375
6.250
1.000
.500
9.125
11.000
11.125
13.218
15.312
18.750
20.625
21.875
.344
.312 DIA THRU
2 HOLES
.166
.159 DIA THRU
100° CSINK TO .305 DIA
4 HOLES
.266
.234 R
4 PLACES
3.453
3.422
2.953
2.922
1.391
1.359
1.328
1.297
.516
.484
4 PLACES
.391
.359 R
4 PLACES
1.203
1.172
3.094
3.062
3.766
3.734
6.015
5.984
45°
5.766
5.734
6.266
6.234
3.703
3.672
3.266
3.234
2.266
2.234
1.641
1.609
.453
.422
.953
.922
2.141
2.109
3.828
3.797
1.453
1.422
2.203
2.172
7.641
7.609
3.141
3.109
1.234
1.203
22½°
.609
.578
1.266
1.234
2.391
2.359
2.516
2.484
6.328
6.297
1014663 REV B SH

1/1014663

REVISIONS					
SYM	ZONE	DESCRIPTION		DATE	APPD
A		REVISED PER TDRR 15565	CHG NC	26 JAN 65	JWP
B		REVISED PER TDRR 17699	—	7 APR 65	JJJ



SECTION D-D
5 REQ'D (40) SEE NOTE 10
.578 .547 DIA
(35)
(16)
.032
.797 .766
(38)
SECTION J-J
.406 .375
45°
.578 .547 DIA.
(40) 7 REQ'D SEE NOTE 10
TYPICAL SECTION H-H
22.172 22.141
19.641 19.609
18.891 18.859
15.828 15.797
15.281 15.219
18.268
2.891 2.859
4.016 3.984
2.516 2.484
1.516 1.484
6.781 6.719
5.281 5.219
.641 .609
1.047 1.016 2 PLACES
.141 .109 R 2 PLACES
.453 .422 x 45° 2 PLACES
.672 .641 R 2 PLACES
.516 .484
.516 .484 X45° 6 PLACES
J
SECTION E-E
(18) (1) (18)
(41) 5 REQ'D
.766 .734 DIA
(39) SEE NOTE 10
(48) SEE NOTE 10
A
B
C
SECTION L-L
1 REQ'D (49)
.080 REF.
.891 .859 REF
.516 .484 REF
SECTION F-F
4 REQ'D (43) SEE NOTE 10
.020 REF
(23)
(15)
(39) SEE NOTE 10
(8)
SECTION G-G
(7) (31) (22) (17)
.020 REF
.032 REF
1.297 1.266
.797 .766
SECTION C-C
SEE NOTE 10 (39)
(19) REF
REF (2)
SEE NOTE 10
(51) 2 REQ'D
.578 .547 DIA
.797 .766 2 PLACES
.020 REF
(17) (22) (52)
(39) 2 REQD
(21) 2 REQD
1.140 1.110 DIA
.641 .609 DIA
REF (3)
REF (26)
.859 .828
(47) (46)
1.297 1.266 3 PLACES
.032 REF
(32) (7)
.172 .141
(12) (33)
(22) (31) (7)
1014663

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
54	1	1014663-054	FACE-PAD
53	1	↑ -053	RING
52	1	-052	FACE-PAD
51	2	1014663-051	INSERT CORE PAD
50	4	NAS1394C-3L	INSERT-THREADED, SELF-LOCKING
49	1	↑ -049	INSERT CORE PAD
48	1	-048	INSERT-CORE, PANEL
47	1	-047	FACE-PAD
46	1	1014663-046	CORE-HONEYCOMB, PAD
45	14	1000115-3	↑ ↑ ↑
44	20	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	↑ -043	INSERT-CORE, PAD
42	1	-042	↑ ↑ ↑
41	11	-041	
40	12	-040	
39	7	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	FACE-PAD
36	1	-036	↑ ↑
35	1	-035	
34			
33	1	-033	
32	1	-032	
31	3	-031	
30	1	-030	
29	1	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	3	-022	FACE-PAD
21	2	-021	INSERT CORE PANEL
20	1	-020	INSERT CORE PANEL
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	3	-017	↑ ↑ ↑
16	1	-016	
15	1	-015	
14			
13	1	-013	
12	1	-012	
11	1	-011	
10			
9			
8	1	-008	
7	3	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014663-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

B 1014663 B

1014664-011	1015023-021
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±~ DECIMALS ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Kahn DATE 8/13-64
CHECKED 9/24/64
APPROVAL 9/24/64
APPROVAL
NASA APPROVAL 12 22 64
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO | SIZE J | 1014663
SCALE 1:1 | SHEET 1 OF 2

27 1014663

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL:
   - A. ITEMS 1 THRU 17 AND ITEM 46: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438, $^{.14}_{.09}$ CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER QQ-A-250/8 (5052-H39), 4.5 DENSITY CORE.
   - ① B. ITEMS 18, 19, 22, 23, 24, 25, 47 & 52: .020 THK AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
   - ① C. ITEMS 26 THRU 35 AND ITEM 54: .032 THK AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
   - ① D. ITEMS 36 & 37 .080 THK AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
   - ① E. ITEM 53: AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3) (ES-2104).
   - F. ITEMS 20, 21, 38 THRU 43 AND 48, 49 & 51: AL ALY PER QQ-A-225/6, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

3. ADHESIVE:
   - A. ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

4. UNLESS OTHERWISE SPECIFIED:
   - A. ALL EDGES MUST BE .005 TO .015 R OR CHAMFER. SURFACE ROUGHNESS MUST NOT EXCEED 125√.
   - B. ALL EDGES ON SURFACE V AND ON BUILD UPS ON OPPOSITE SIDE MUST BE .030 TO .040 RADIUS.

5. MUST BE FREE FROM BURRS.

6. FINISH:
   - ① A. CHEMICAL FILM PER MIL-A-8625 TYPE II.
   - B. APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).
   - ② C. APPLY TT-E-527(ES-2602) LUSTERLESS ENAMEL (GREY), COLOR NO. 36231 OF FED-STD-595, TO FRONT AND SIDES OF PANEL, PER ND1002110.
   - ② D. CHARACTERS, BORDER LINES, POSITION MARKS AND ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE) ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS OTHERWISE SPECIFIED CHARACTERS TO BE $^{.141}_{.109}$ HIGH FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE AS SHOWN. BORDER LINES, POSITION MARKS AND ARROWS TO BE $^{.042}_{.014}$ WIDE.

7. IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND 1002019.

8. CHARACTERS ON REAR OF PANEL, EXCEPT MFR'S SYMBOL, TO BE MARKED IN $^{.141}_{.109}$ HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019.

9. BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177.

10. TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 THRU 51 IS ±.031 HOLE LOCATIONS SHALL BE AS SPECIFIED.

11. SERIALIZE PER ND 1002023

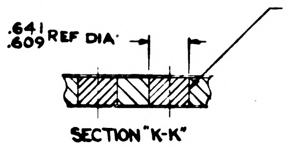
12. $^{.169}_{.165}$ DIA, $^{.344}_{.312}$ DEEP, #10-32 UNF-2B THD $^{.205}_{.190}$ DEEP, 82° CSK TO .194 DIA INSTALL ITEM 44 .010 TO .030 BELOW EXPOSED SURFACE OF FACE, 22 HOLES.

13. $^{.194}_{.190}$ DIA, $^{.391}_{.359}$ DEEP, #12-28 UNF-2B THD $^{.225}_{.210}$ DEEP 82° CSK TO .220 DIA INSTALL ITEM 45 .010 TO .030 BELOW EXPOSED SURFACE OF FACE, 11 HOLES

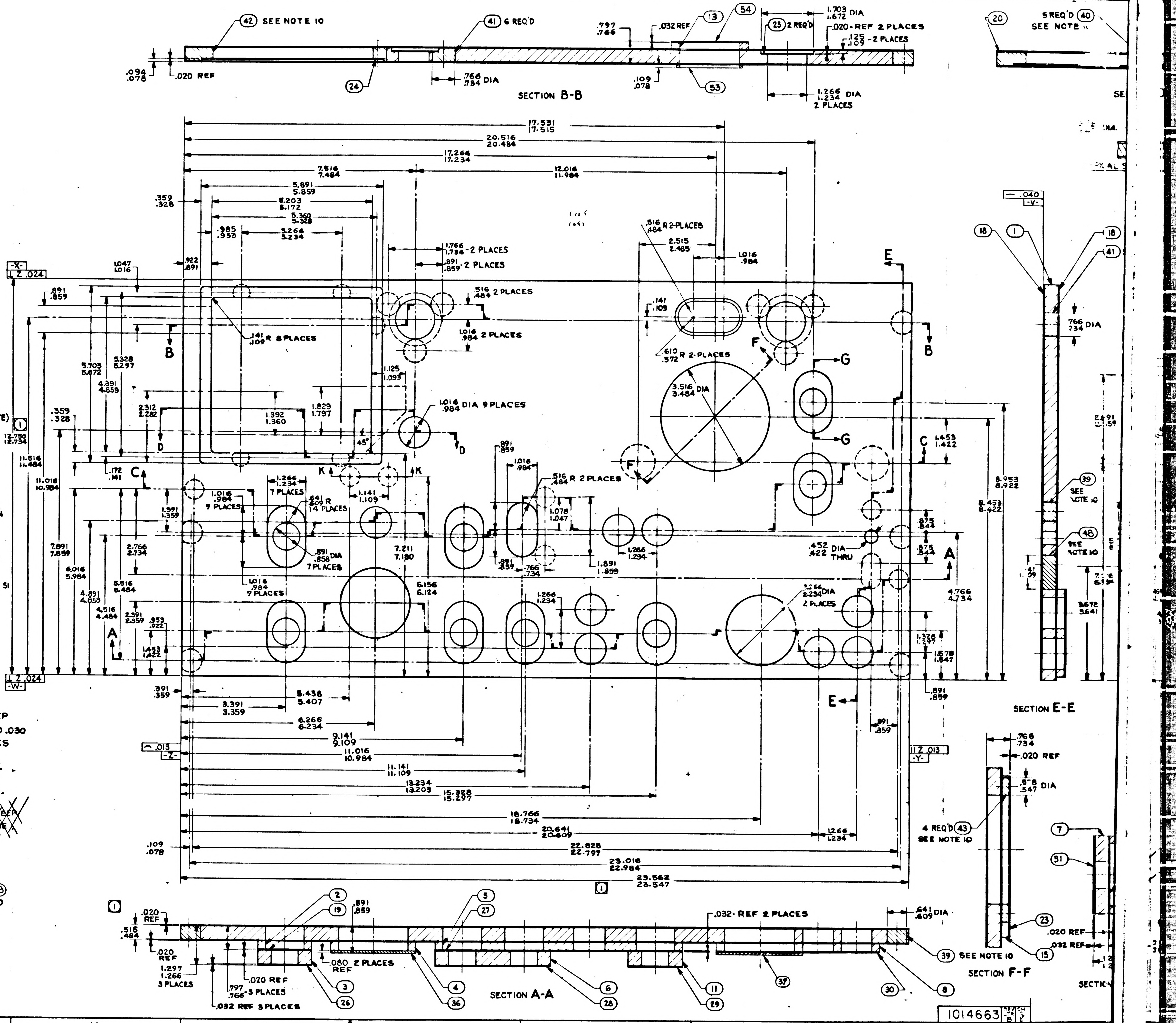
14. ① CONTROLLED BY ICD MH01-01004-116.

15. ② CONTROLLED BY ICD MH01-01046-416.

16. ~~[illegible] DIA THRU C'BORE $^{.319}_{.308}$ DIA * .375UNC 2B THD $^{.359}_{.335}$ DEEP INSTALL ITEM 50 .010 TO .030 BELOW EXPOSED SURFACE.~~



2 REQ'D (39)
SEE NOTE 10
.641/.609 REF DIA
SECTION "K-K"

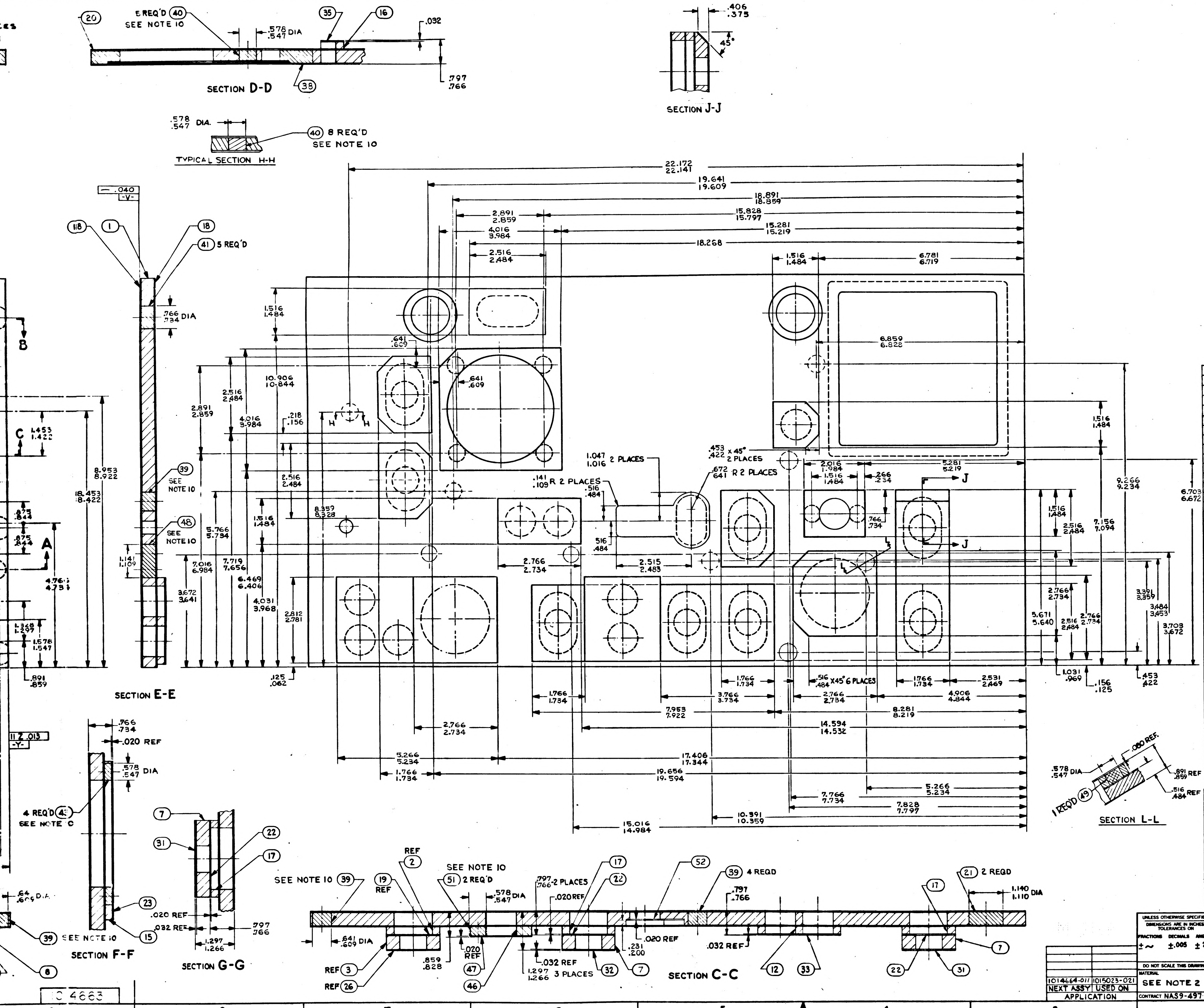


(42) SEE NOTE 10
(41) 6 REQ'D
(13)
(54)
(25) 2 REQ'D
(20)
5 REQ'D (40) SEE NOTE 10
(24)
(53)
.797/.766
.032 REF
1.703/1.672 DIA
.020 REF 2 PLACES
.125/.109 2 PLACES
.094/.078
.020 REF
.766/.734 DIA
.109/.078
1.266/1.234 DIA 2 PLACES
SECTION B-B
17.531/17.515
20.516/20.484
17.266/17.234
7.516/7.484
12.016/11.984
5.891/5.859
5.203/5.172
5.360/5.328
.985/.953
3.266/3.234
.359/.328
.922/.891
1.047/1.016
1.766/1.734 2 PLACES
.891/.859 2 PLACES
.516/.484 2 PLACES
1.016/.984 2 PLACES
.141/.109 R 8 PLACES
.516/.484 R 2 PLACES
2.515/2.485
1.016/.984
.141/.109
.610/.572 R 2 PLACES
3.516/3.484 DIA
1.016/.984 DIA 9 PLACES
1.125/1.093
1.392/1.360
1.829/1.797
2.312/2.282
45°
-X- ⊥ Z .024
-W- ⊥ Z .024
-Z- ⌒ .013
-Y- // Z .013
12.750/12.734
11.516/11.484
11.016/10.984
5.703/5.672
4.891/4.859
5.328/5.297
.172/.141
1.266/1.234 7 PLACES
.641/.609 R 14 PLACES
1.016/.984 9 PLACES
.891/.858 DIA 7 PLACES
1.016/.984 7 PLACES
1.141/1.109
7.211/7.180
6.156/6.124
.516/.484 R 2 PLACES
1.016/.984
1.078/1.047
.891/.859
.766/.734
1.266/1.234
1.891/1.859
.452/.422 DIA THRU
2.266/2.234 DIA 2 PLACES
1.453/1.422
.875/.844
.875/.844
1.328/1.297
1.578/1.547
4.766/4.734
8.953/8.922
8.453/8.422
.891/.859
1.591/1.359
2.766/2.734
7.891/7.859
6.016/5.984
4.891/4.859
5.516/5.484
4.516/4.484
2.391/2.359
.953/.922
1.453/1.422
.391/.359
3.391/3.359
5.438/5.407
6.266/6.234
9.141/9.109
11.016/10.984
11.141/11.109
13.234/13.203
15.328/15.297
18.766/18.734
20.641/20.609
22.828/22.797
23.016/22.984
23.562/23.547
1.266/1.234
.891/.859
.109/.078
A
B
C
D
E
F
G
K
(18)
(1)
(41)
.040 -V-
.766/.734 DIA
(39) SEE NOTE 10
(48) SEE NOTE 10
3.672/3.641
SECTION E-E
.766/.734
.020 REF
.578/.547 DIA
4 REQ'D (43) SEE NOTE 10
(7)
(31)
(23)
.020 REF
.032 REF
(15)
(39) SEE NOTE 10
SECTION F-F
(2)
(19)
(5)
(27)
.891/.859
.020 REF
.516/.484
.020 REF
1.297/1.266 3 PLACES
.080 2 PLACES REF
.020 REF
.797/.766 3 PLACES
.032 REF 3 PLACES
.032 REF 2 PLACES
.641/.609 DIA
(3)
(26)
(4)
(36)
(6)
(28)
(11)
(29)
(37)
(30)
(8)
SECTION A-A

1014663

1/1014663

SYM	ZONE	REVISIONS DESCRIPTION	CHG NO	DATE	APPD


SECTION D-D
8 REQ'D (40)
SEE NOTE 10
SECTION J-J
TYPICAL SECTION H-H
(40) 8 REQ'D
SEE NOTE 10
SECTION E-E
(41) 5 REQ'D
SEE NOTE 10
SECTION F-F
4 REQ'D (43)
SEE NOTE 10
SECTION G-G
SECTION C-C
SEE NOTE 10
(51) 2 REQ'D
(39) 4 REQD
(21) 2 REQD
SECTION L-L
1 REQ'D (49)
.080 REF.
.516 X 45° 6 PLACES
R 2 PLACES
2 PLACES
22.172
22.141
19.641
19.609
18.891
18.859
15.828
15.797
15.281
15.219
18.268
6.859
6.828
9.266
9.234
7.156
7.094
17.406
17.344
19.656
19.594
14.594
14.532
15.016
14.984
10.391
10.359
C 4663
1014663

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
54	1	1014663-054	FACE-PAD
53	1	↑ -053	RING
52	1	-052	FACE-PAD
51	2	1014663-051	INSERT CORE PAD
50	4	1000136-2	INSERT-THREADED, SELF-LOCKING
49	1	↑ -049	INSERT CORE PAD
48	1	-048	INSERT-CORE, PANEL
47	1	-047	FACE-PAD
46	1	1014663-046	CORE-HONEYCOMB, PAD
45	16	1000115-3	↑ ↑ ↑
44	20	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	↑ -043	INSERT-CORE, PAD
42	1	-042	↑ ↑ ↑
41	11	-041	
40	13	-040	
39	9	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	FACE-PAD
36	1	-036	↑ ↑
35	1	-035	
34			
33	1	-033	
32	1	-032	
31	3	-031	
30	1	-030	
29	1	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	3	-022	FACE-PAD
21	2	-021	INSERT CORE PANEL
20	1	-020	INSERT CORE PANEL
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	3	-017	↑ ↑ ↑
16	1	-016	
15	1	-015	
14			
13	1	-013	
12	1	-012	
11	1	-011	
10			
9			
8	1	-008	
7	3	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014663-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014664-011	1015023-021

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ~ DECIMALS ±.005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTE 2
CONTRACT NAS9-497

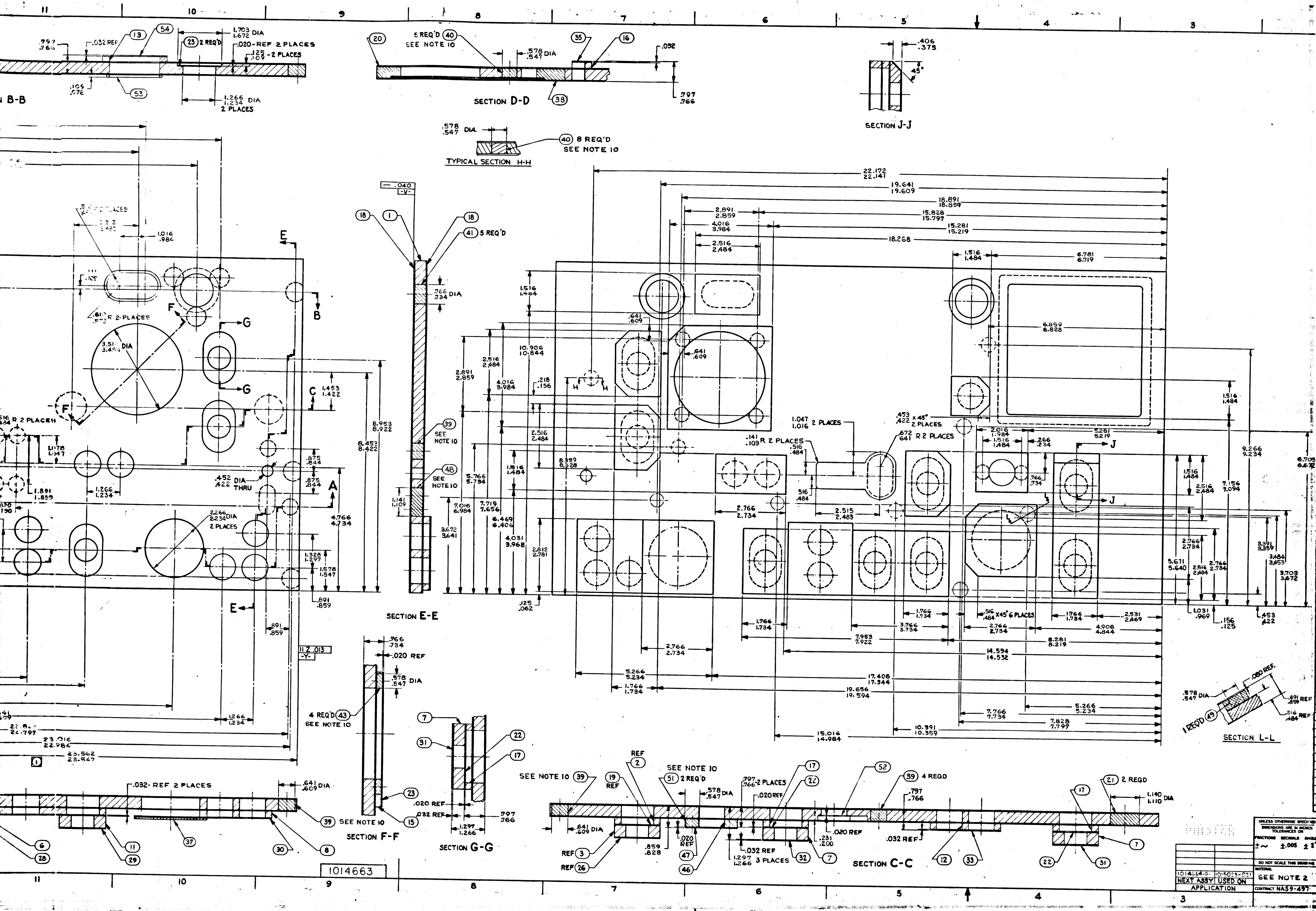
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Kahn DATE 8/13-64
CHECKED F. Boshue 9/24/64
APPROVAL 9/24/64
APPROVAL
NASA APPROVAL 12-22-64
MIT APPROVAL 22 Dec 64

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO SIZE J 1014663
SCALE 1:1 SHEET 1 OF 2

F-3


SECTION B-B
SECTION D-D
SECTION J-J
TYPICAL SECTION H-H
SECTION E-E
SECTION F-F
SECTION G-G
SECTION C-C
SECTION L-L
5 REQ'D (40) SEE NOTE 10
(40) 8 REQ'D SEE NOTE 10
(41) 5 REQ'D
(39) SEE NOTE 10
(48) SEE NOTE 10
4 REQ'D (43) SEE NOTE 10
(39) 4 REQD
(21) 2 REQD
(51) 2 REQ'D
(25) 2 REQ'D
1 REQ'D (49)
.020-REF 2 PLACES
.032-REF 2 PLACES
R 2 PLACES
2.266 / 2.234 DIA 2 PLACES
.452 / .422 DIA THRU
.453 / .422 x 45° 2 PLACES
.516 / .484 X45° 6 PLACES
1.297 / 1.266 3 PLACES
.797 / .766 2 PLACES
22.172 / 22.141
19.641 / 19.609
18.891 / 18.859
15.828 / 15.797
15.281 / 15.219
18.268
23.562 / 23.547
23.016 / 22.984
17.406 / 17.344
19.656 / 19.594
15.016 / 14.984
14.594 / 14.532
1014663
11
10
9
8
7
6
5
4
3
2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER
54	1	101466
53	1	↑
52	1	
51	2	10146
50	4	10001
49	1	↑
48	1	
47	1	
46	1	101466
45	16	1000115
44	20	1000115
43	4	↑
42	1	
41	11	
40	13	
39	9	
38	1	
37	1	
36	1	
35	1	
34		
33	1	
32	1	
31	3	
30	1	
29	1	
28	1	
27	1	
26	1	
25	2	
24	1	
23	1	
22	3	
21	2	
20	1	
19	1	
18	2	
17	3	
16	1	
15	1	
14		
13	1	
12	1	
11	1	
10		
9		
8	1	
7	3	
6	1	
5	1	
4		
3	1	
2	1	
1	1	10 46

MASTER

1014664-0	1015023-021
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLE
± ~	±.005	± 2°

DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

CONTRACT NAS9-497

AC SPARK PLUG DIVISION
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN
DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
NASA APPROVAL

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL:
   - A. ITEMS 1 THRU 17 AND ITEM 46: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438, $\substack{.141\\.109}$ CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER QQ-A-250/8 (5052-H39), 4.5 DENSITY CORE.
   - ① B. ITEMS 18, 19, 22, 23, 24, 25, 47 & 52: .020 THK AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
   - ① C. ITEMS 26 THRU 35 AND ITEM 54: .032 THK AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
   - ① D. ITEMS 36 & 37 .080 THK AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
   - ① E. ITEM 53: AL ALY PER QQ-A-250/5, TEMPER T-3 (TYPE 2024-T3) (ES-2104).
   - F. ITEMS 20, 21, 38 THRU 43 AND 48, 49 & 51: AL ALY PER QQ-A-225/6, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

3. ADHESIVE:
   - A. ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

4. UNLESS OTHERWISE SPECIFIED:
   - A. ALL EDGES MUST BE .005 TO .015 R OR CHAMFER. SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt[125]{}$.
   - B. ALL EDGES ON SURFACE V AND ON BUILD UPS ON OPPOSITE SIDE MUST BE .030 TO .040 RADIUS.

5. MUST BE FREE FROM BURRS.

6. FINISH:
   - ① A. CHEMICAL FILM PER MIL-A-8625 TYPE II.
   - B. APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).
   - ② C. APPLY TT-E-527(ES-2602) LUSTERLESS ENAMEL (GREY), COLOR NO. 36231 OF FED-STD-595, TO FRONT AND SIDES OF PANEL, PER ND1002110.
   - ② D. CHARACTERS, BORDER LINES, POSITION MARKS AND ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE) ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS OTHERWISE SPECIFIED CHARACTERS TO BE $\substack{.141\\.109}$ HIGH FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE AS SHOWN. BORDER LINES, POSITION MARKS AND ARROWS TO BE $\substack{.047\\.014}$ WIDE.

7. IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND 1002019.

8. CHARACTERS ON REAR OF PANEL, EXCEPT MFR'S SYMBOL, TO BE MARKED IN $\substack{.141\\.109}$ HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019.

9. BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177.

10. TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 THRU 51 IS ±.031 HOLE LOCATIONS SHALL BE AS SPECIFIED.

11. SERIALIZE PER ND 1002023

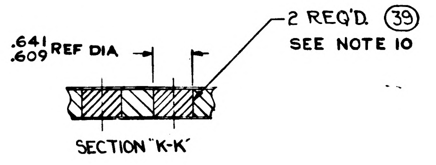
12. $\substack{.169\\.165}$ DIA, $\substack{.344\\.212}$ DEEP, # 10-32 UNF-2B THD $\substack{.205\\.190}$ DEEP, 82° CSK TO .194 DIA INSTALL ITEM 44 .010 TO .030 BELOW EXPOSED SURFACE OF FACE, 22 HOLES

13. $\substack{.194\\.190}$ DIA, $\substack{.391\\.359}$ DEEP, # 12-28 UNF-2B THD $\substack{.225\\.210}$ DEEP 82° CSK TO .220 DIA INSTALL ITEM 45 .010 TO .030 BELOW EXPOSED SURFACE OF FACE, 11 HOLES

14. ① CONTROLLED BY ICD MH01-01004-116.

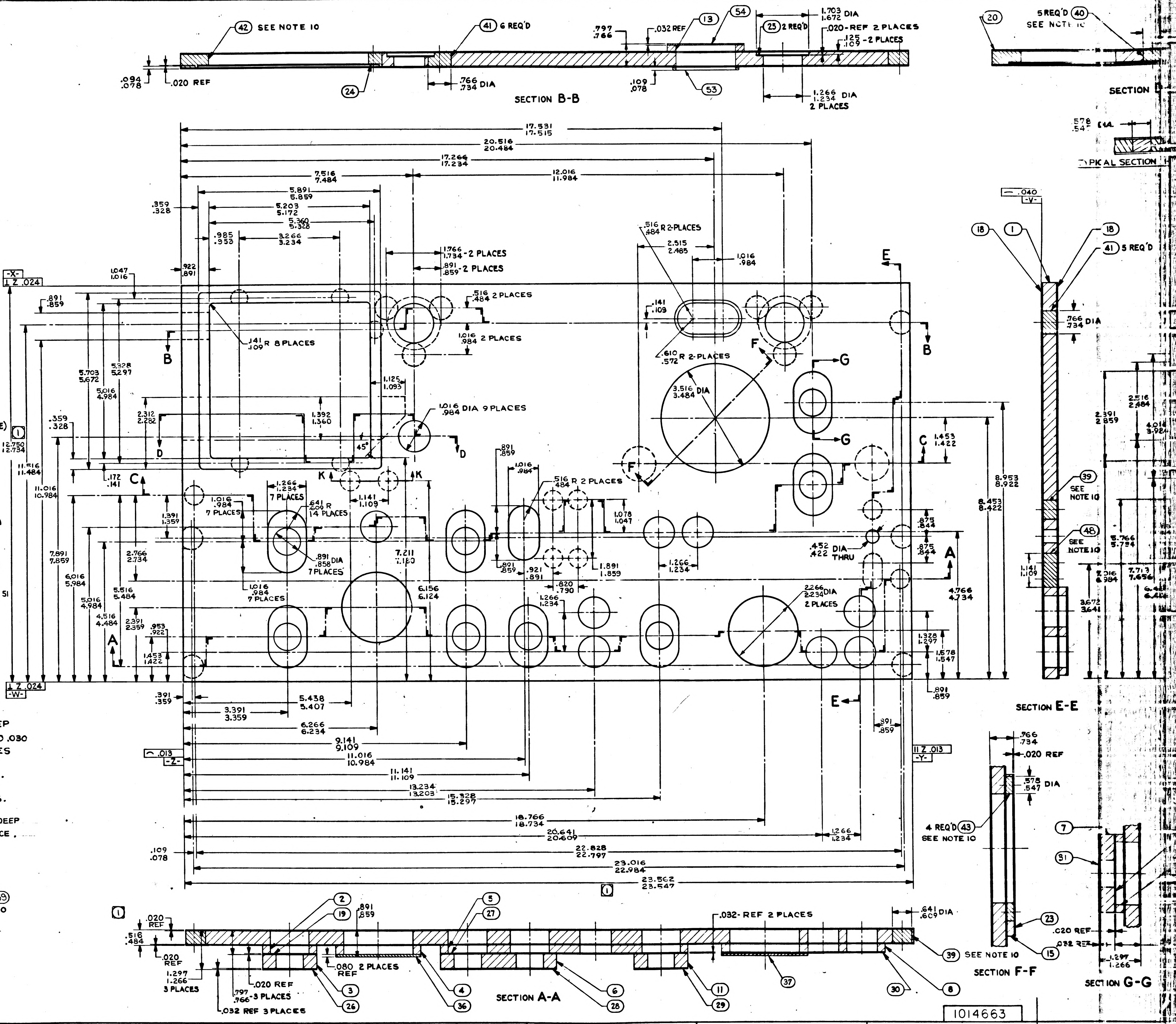
15. ② CONTROLLED BY ICD MH01-01046-416.

16. $\substack{.218\\.203}$ DIA THRU, C'BORE $\substack{.319\\.308}$ DIA # .375 UNC-2B THD $\substack{.350\\.335}$ DEEP INSTALL ITEM 50 .010 TO .030 BELOW EXPOSED SURFACE.



2 REQ'D. (39)
SEE NOTE 10
.641 .609 REF DIA

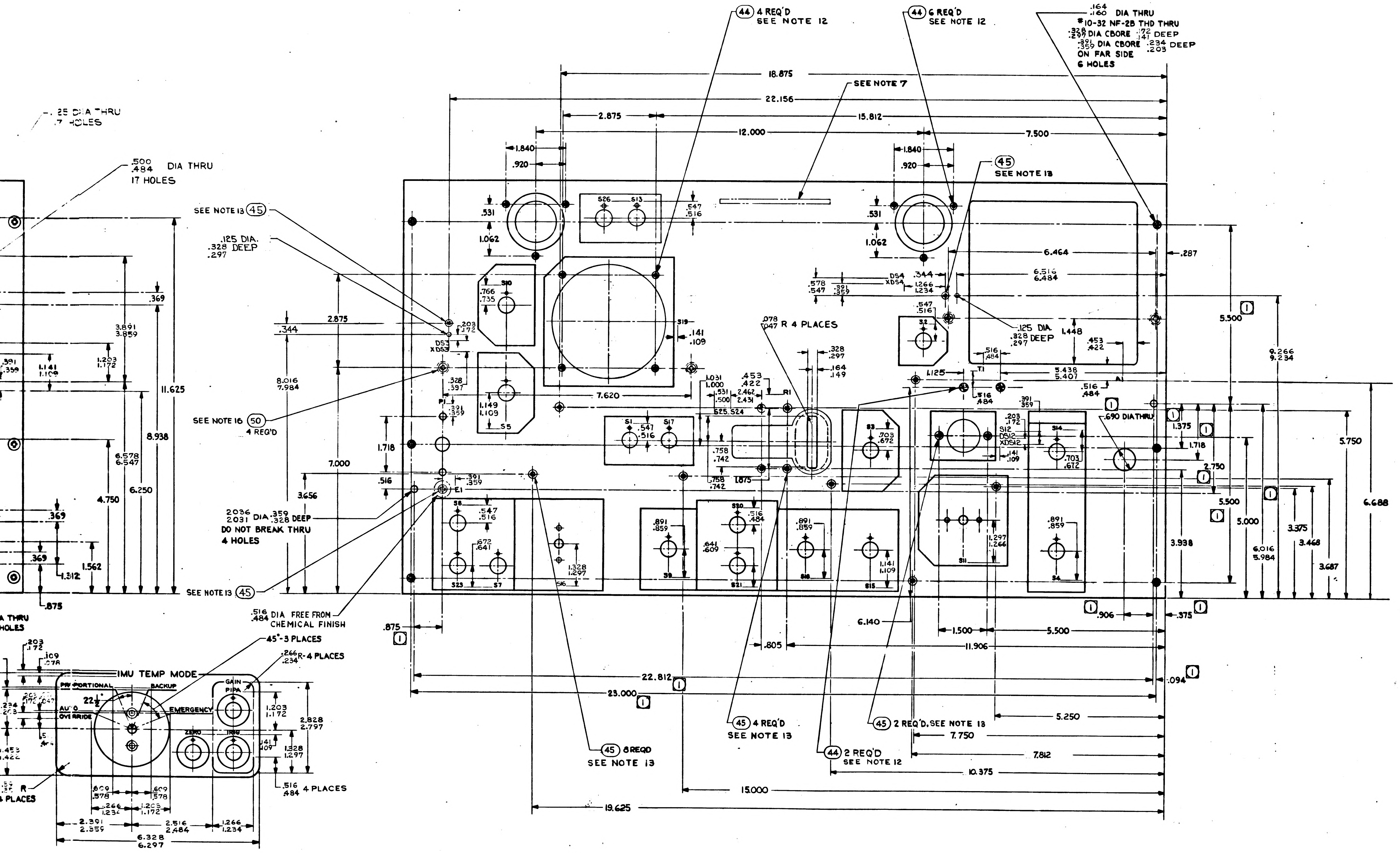
SECTION "K-K"



(42) SEE NOTE 10
(41) 6 REQ'D
(24)
(13)
(54)
(25) 2 REQ'D
(53)
SECTION B-B
17.531 17.515
20.516 20.484
17.266 17.234
12.016 11.984
7.516 7.484
5.891 5.859
1.016 DIA 9 PLACES
.141 .109 R 8 PLACES
3.516 3.484 DIA
.452 .422 DIA THRU
2.266 2.234 DIA 2 PLACES
-X-
⊥ Z .024
-W-
-Z-
-Y-
23.562 23.547
(18)
(1)
(41) 5 REQ'D
(39) SEE NOTE 10
(48) SEE NOTE 10
SECTION E-E
(43) 4 REQ'D SEE NOTE 10
(23)
(15)
SECTION F-F
(7)
(51)
SECTION G-G
(2)
(19)
(5)
(27)
(3)
(26)
(4)
(36)
(6)
(28)
(11)
(29)
(37)
(30)
(8)
SECTION A-A
(20)
5 REQ'D (40)
SECTION D
TYPICAL SECTION

1014663

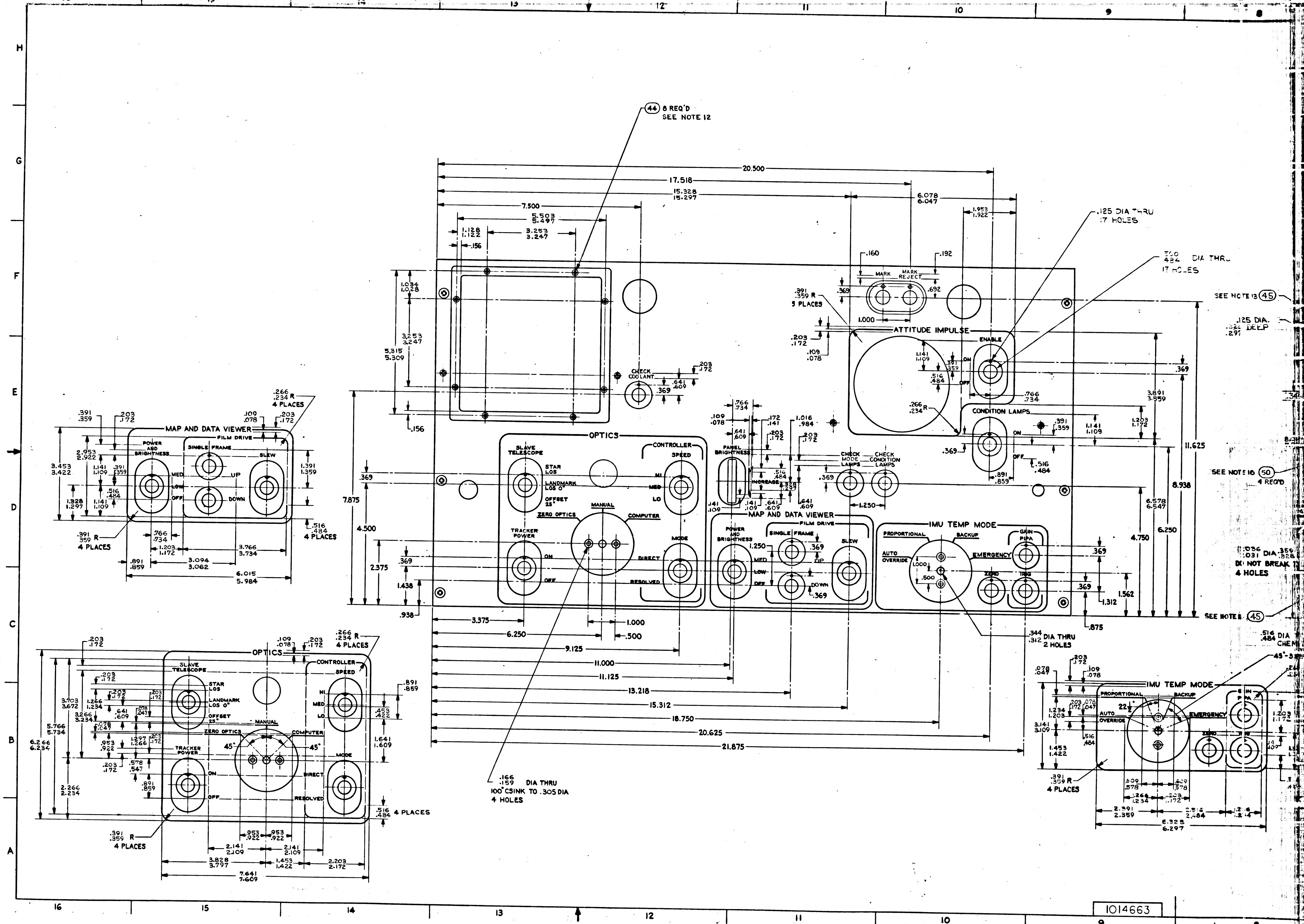
REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISIONS.			



(44) 4 REQ'D SEE NOTE 12
(44) 6 REQ'D SEE NOTE 12
.164 .160 DIA THRU
#10-32 NF-2B THD THRU
.328 .297 DIA CBORE .172 .141 DEEP
.391 .359 DIA CBORE .234 .203 DEEP ON FAR SIDE
6 HOLES
.125 DIA THRU 17 HOLES
.500 .484 DIA THRU 17 HOLES
SEE NOTE 7
SEE NOTE 13 (45)
.125 DIA. .328 .297 DEEP
SEE NOTE 16 (50) 4 REQ'D
2.036 2.031 DIA .359 .328 DEEP DO NOT BREAK THRU 4 HOLES
.516 .484 DIA FREE FROM CHEMICAL FINISH
45°-3 PLACES
.266 .234 R-4 PLACES
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO
OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIG
.516 .484 4 PLACES
R 4 PLACES
.078 .047 R 4 PLACES
.690 DIA THRU
.125 DIA. .328 .297 DEEP
(45) SEE NOTE 13
(45) 6 REQ'D SEE NOTE 13
(45) 4 REQ'D SEE NOTE 13
(44) 2 REQ'D SEE NOTE 12
(45) 2 REQ'D, SEE NOTE 13
S1 S3 S4 S5 S6 S7 S8 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S26
DS3 XDS3 DS4 XDS4 DS12 XDS12 E1 P1 R1 T1
18.875
22.156
15.812
12.000
7.500
2.875
1.840
.920
6.464
6.516 6.484
.287
5.500
9.266 9.234
5.750
6.688
7.620
7.000
8.016 7.984
11.625
8.938
6.250
4.750
22.812
23.000
.094
19.625
15.000
10.375
7.812
7.750
5.250
11.906
6.140
1.500
.805
.875
.906
.375
1.375
1.718
2.750
3.938
5.000
6.016 5.984
3.375
3.468
3.687
6.328 6.297

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
ACSP PN	
DRAWN R. Cotton DATE 9/19/64	PANEL G & N INDICATOR CONTROL (INSEPARABLE)
CHECKED F. J. Backus 9/21/64	
APPROVAL 9/26/64	
APPROVAL	
NASA APPROVAL 12 22 64	CODE IDENT NO. / SIZE J / 1014663
MIT APPROVAL 22 Dec	SCALE 1:1 / SHEET 2 OF 2

1014663


44 8 REQ'D
SEE NOTE 12
20.500
17.518
15.328
15.297
7.500
6.078
6.047
5.503
5.497
3.253
3.247
1.128
1.122
.156
1.953
1.922
.125 DIA THRU
17 HOLES
DIA THRU
17 HOLES
SEE NOTE 13 45
.125 DIA.
DEEP
MARK
MARK REJECT
.160
.192
.391
.359 R
5 PLACES
ATTITUDE IMPULSE
ENABLE
ON
OFF
CONDITION LAMPS
CHECK COOLANT
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
ZERO OPTICS
MANUAL
COMPUTER
TRACKER POWER
CONTROLLER
SPEED
HI
MED
LO
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
UP
DOWN
LOW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
TRIG
11.625
8.938
6.578
6.547
6.250
4.750
1.562
1.312
.875
SEE NOTE 16 50
4 REQ'D
.036
.031 DIA
DO NOT BREAK
4 HOLES
SEE NOTE 8 45
.344
.312 DIA THRU
2 HOLES
.516
.484 DIA
7.875
4.500
2.375
1.438
.938
3.375
6.250
9.125
11.000
11.125
13.218
15.312
18.750
20.625
21.875
1.000
.500
.166
.159 DIA THRU
100° CSINK TO .305 DIA
4 HOLES
.266
.234 R
4 PLACES
.516
.484
4 PLACES
.391
.359 R
4 PLACES
6.015
5.984
3.094
3.062
3.766
3.734
7.641
7.609
3.828
3.797
1.453
1.422
2.203
2.172
6.266
6.234
5.766
5.734
45°
6.328
6.297
2.391
2.359
H
G
F
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D
C
B
A
16
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14
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9
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1014663

SYM	ZONE	REVISIONS 13328 DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER TURR 1772.3		23 MAR 65	NP

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. INSPECT PER PS 1014664.

3. SERIALIZE PER ND 1002023

4. SOLDER PER ND1002071 USING ITEMS ㊶ AND ㊷

5. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING

6. ① DIMENSION CONTROLLED BY ICD MH01-01006-116.

7. ② DIMENSION CONTROLLED BY ICD MH01-01004-116.

8. MOISTURE PROOFING:
   a. THE PANEL ASSEMBLY, WITHOUT THE SEXTANT HAND CONTROLLER ASSY. ITEM ④, SHALL HAVE ALL SOLDERED ELECTRICAL COMPONENT CONNECTIONS ENCAPSULATED TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236.

   b. UPON COMPLETION OF 8a. ASSEMBLE THE SEXTANT HAND CONTROLLER ASSY, ITEM ④. INTO THE PANEL ASSEMBLY AND ENCAPSULATE ALL SOLDERED ELECTRICAL TERMINATIONS ON TB-1 TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236, EXCEPT THE OVEN TEMPERATURE SHALL BE 130°±5°F FOR 16 HOURS MINIMUM.

   c. CONDUCTOR INSULATION SHALL EXTEND INTO THE ENCAPSULATION 0.18±0.06 INCHES.

9. SECURE ITEM ㊽ IN ITEM ④, USING ITEM (58) PER ND1002211. DO NOT REMOVE THE TEMPORARY SCREW AND GASKET MORE THAN 10 MINUTES PRIOR TO INSTALLING ITEM ㊽.

	QUANTITY REQUIRED			011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				AR		63	1012504-2	PRIMER, METAL
				AR		62	1012504-1	PRIMER, METAL
				1		61	1023003	CAP PUSHBUTTON
				1		60	1023002-001	HANDLE
				1		59	1023002-002	HANDLE
				AR		58	MIL-S-22473 GRADE C	SEALING COMPOUND, RETAINING
SEE NOTE 5				AR		57	1012503-2	COMPOUND, POLYURETHANE
SEE NOTE 5				AR		56	1012503-1	COMPOUND, POLYURETHANE
				X		55	PS1014664	SPECIFICATION
				X		54	1014662	SCHEMATIC DIAGRAM, ELECT
SEE NOTE 5				10		53	1000220-1 THRU 1000220-12	CLAMP, CABLE
				6		52	1011918-3	WASHER-CABLE CLAMP
				2		51	1011918-1	WASHER-CABLE CLAMP
				3		50	1006783-22	SCREW-BUTTON HD.
				4		49	[illegible]	SCREW-SET-SELF [illegible]
				3		48	1006783-18	SCREW-BUTTON HD.
				[illegible]		47	1010630-25	SCREW-FLAT HD.
				10		46	1006783-19	SCREW-BUTTON HD.
						45		
SEE NOTE 5				12		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
						43		
				AR		42	QQ-S-571 SN60WRAP2	SOLDER
				AR		41	MIL-F-14256	FLUX (ES-2798)
				10		40	1014503	SCREW-CAPTIVE
SEE NOTE 5				2		39	1010268-2	LAMP-INCANDESCENT
SEE NOTE 5				2		38	1010625-1	HOLDER, LAMP
				2		37	1014595	BRACKET, MOUNTING-LAMP
				1		36	1014594	PLATE, MOUNTING SWITCH
				2		35	1014587	WINDOW
				4		34	1014584	GASKET, WINDOW
				2		33	1014583	CLAMP, WINDOW
				2		32	1014530	PIN-CONNECTOR
				2		31	1014528	PIN-PANEL
				1		30	1014588	WHEEL, POTENTIOMETER
				2		29	MS-16633-4009	RING-RETAINING
				1		28	1014586	SUPPORT, HAND CONTROLLER
				1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
SEE NOTE 5				9		26	1010475-1	CAP, PUSHBUTTON
				2		25	NAS1081C04D3L	SCREW, SET, SELF LOCK
				2		24	1014585-003	KNOB, ROTARY SWITCH
SEE NOTE 5				1		23	1010494-4	SWITCH ASSY, ROTARY
				1		22	1010494-2	SWITCH ASSY, ROTARY
						21		
				1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
				2		19	1010480-3	SWITCH ASSY, PUSH BUTTON
				4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
				4		17	1010480-1	SWITCH ASSY, PUSH BUTTON
				1		16	1010489-1	SWITCH ASSY, TOGGLE
				1		15	1010479-2	SWITCH ASSY, TOGGLE
				1		14	1010484-2	SWITCH ASSY, TOGGLE
				1		13	1010484-1	SWITCH ASSY, TOGGLE
				1		12	1010479-1	SWITCH ASSY, TOGGLE
				1		11	1010478-2	SWITCH ASSY, TOGGLE
				2		10	1010478-1	SWITCH ASSY, TOGGLE
				1		9	1006783-21	SCREW, BUTTON HD
				1		8	1010624-2	LAMP, INCANDESENT
SEE NOTE 5				1		7	1010492	TRANSFORMER, POWER
				1		6	1014650-12	NAME PLATE
				1		5	1015048-011	ATTITUDE IMPULSE SWITCH ASSY.
				1		4	1021700-021	SEXTANT HAND CONTROLLER ASSY.
				1		3	1014665	HARNESS
				1		2	1014591-021	BRACKET & POT. ASSEMBLY
				1		1	1014663	PANEL, G&N IND. CONT. (INSEP.)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN P. Oster DATE 17 Dec 64
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

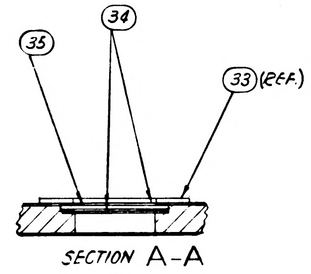
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

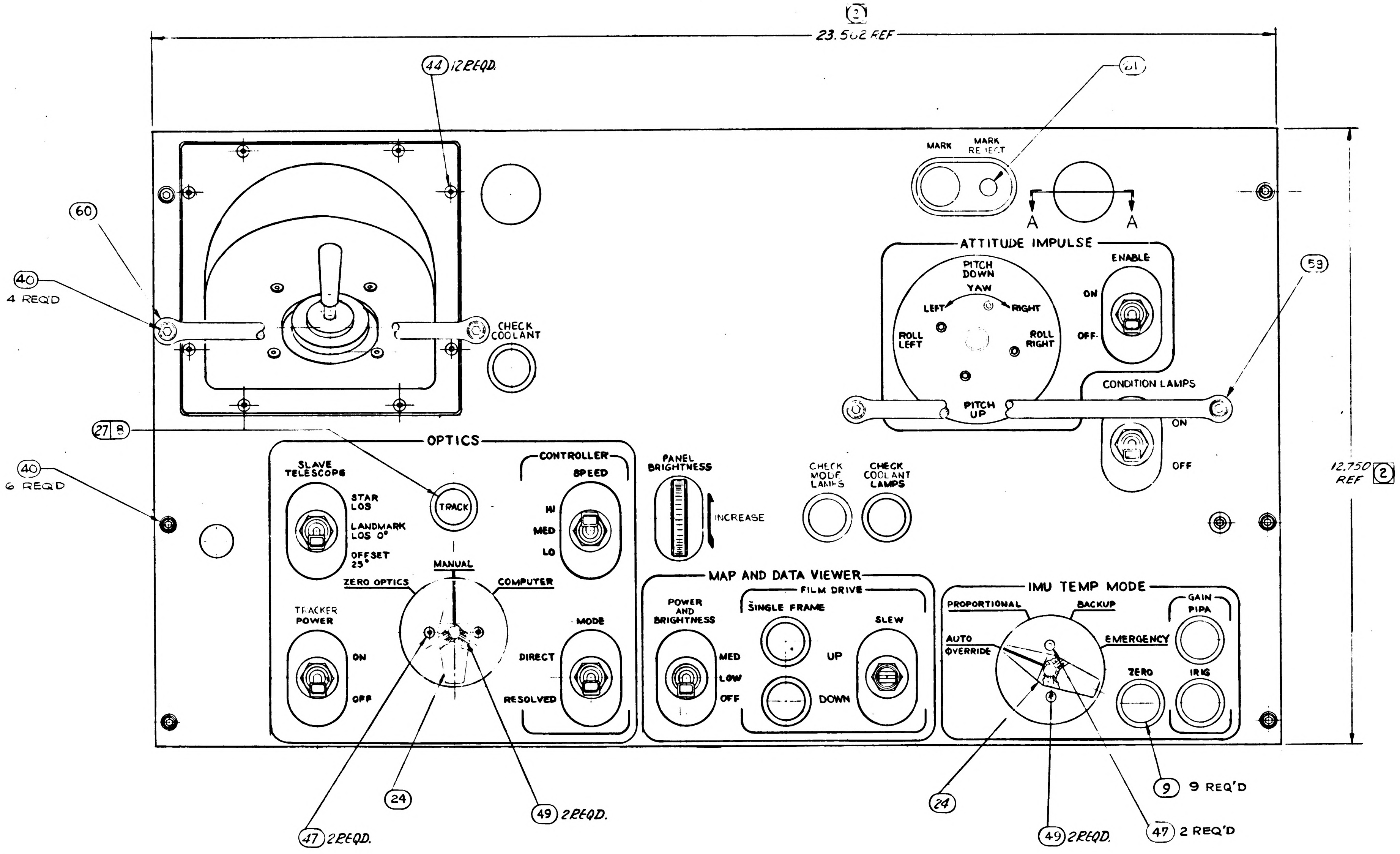
CODE IDENT NO.
SIZE E
1014664
SCALE —
WEIGHT
SHEET 1 OF 3

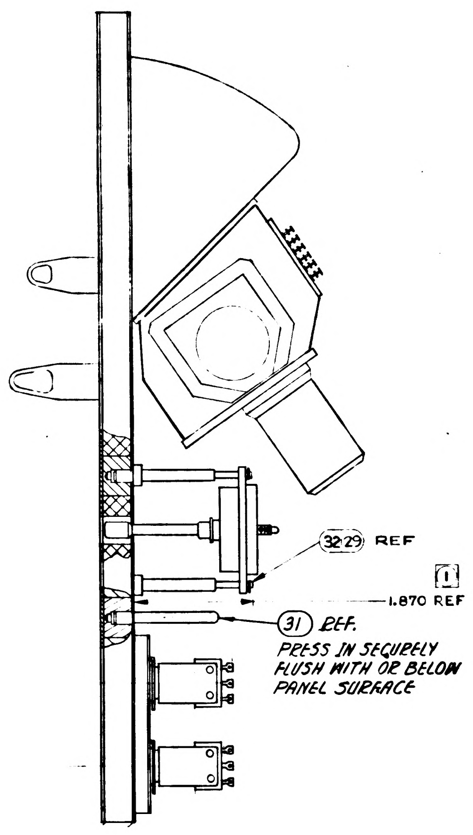
1014664 A

REVISIONS T[illegible] 17726					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		THIS SHEET ADDED PER TDRR 17726		23 MAR 65	



SECTION A-A


2
23.502 REF
44 12 REQD.
61
MARK
MARK REJECT
A
A
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
53
CONDITION LAMPS
ON
OFF
60
40 4 REQ'D
CHECK COOLANT
27 B
40 6 REQ'D
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
MANUAL
ZERO OPTICS
COMPUTER
TRACKER POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK COOLANT LAMPS
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
MED
LOW
OFF
SINGLE FRAME
UP
DOWN
SLEW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIG
12.750 REF 2
24
47 2 REQD.
49 2 REQD.
24
49 2 REQD.
47 2 REQ'D
9 9 REQ'D


32-29 REF
1
1.870 REF
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE

Ⓐ THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

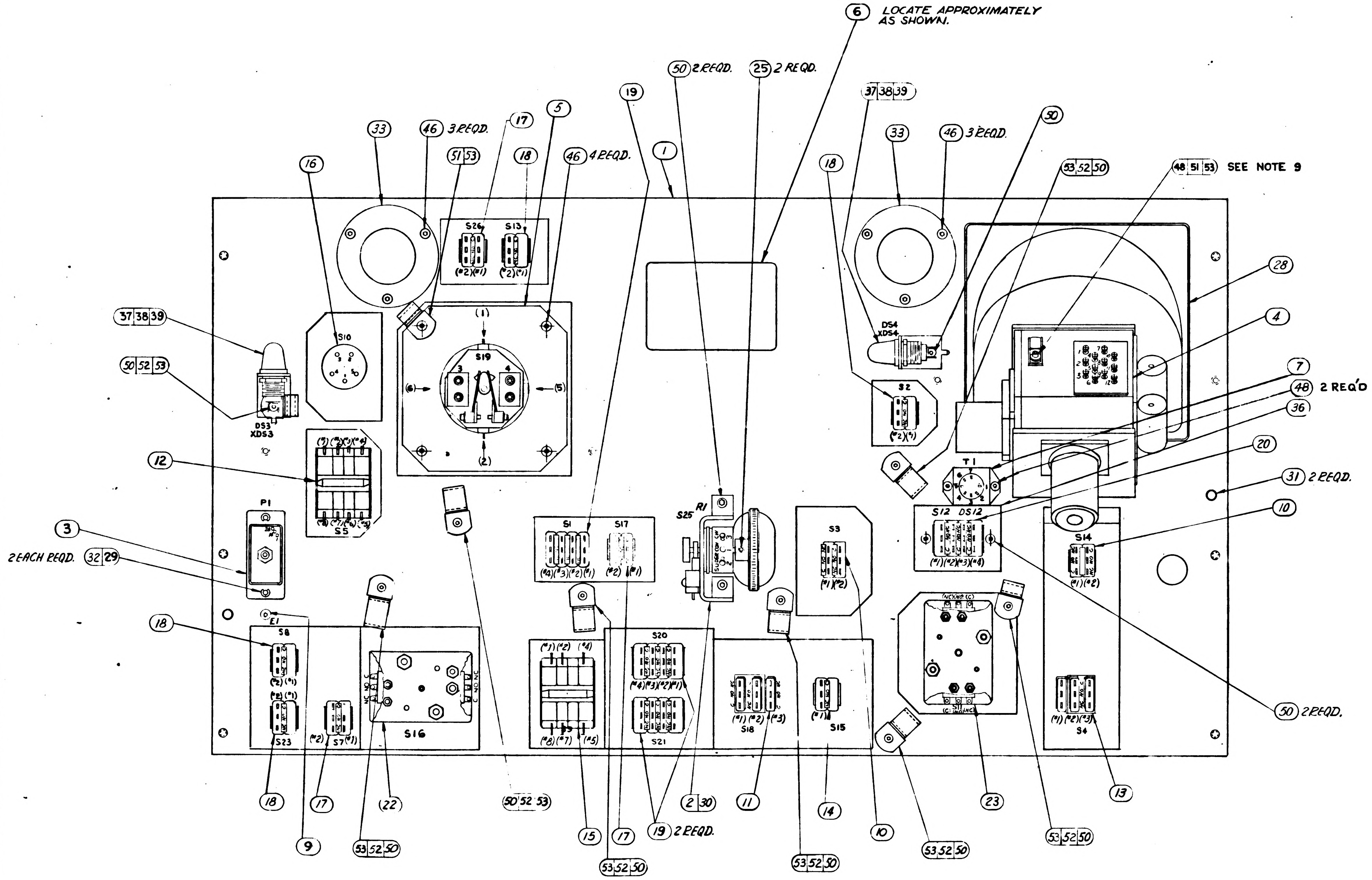
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE
CHECKED Boehme 1/20/64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

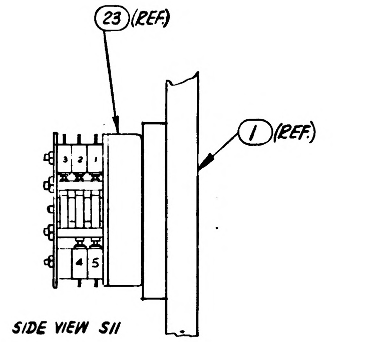
G & N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014664
SCALE
SHEET 2 OF 3

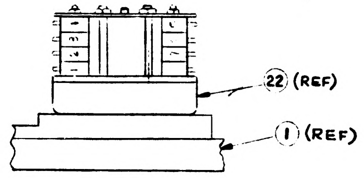
REVISIONS TDRR 17726					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		THIS SHEET ADDED PER TDRR 17726		23 MAR 65	JWP



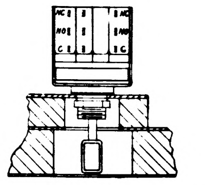
6 LOCATE APPROXIMATELY AS SHOWN.
50 2 REQD.
25 2 REQD.
19
37 38 39
33
46 3 REQD.
50
53 52 50
48 51 53 SEE NOTE 9
16
17
5
51 53
18
46 4 REQD.
1
28
4
7
48 2 REQ'D
36
20
31 2 REQD.
10
37 38 39
50 52 53
DS3
XDS3
S10
S19
S26
S13
(1) (2) (3) (4) (5) (6)
12
S5
3
P1
2 EACH REQD. 32 29
E1
18
S8
S23
S7
S16
S1
S17
S25
R1
S3
S2
DS4
XDS4
T1
S12 DS12
S14
S20
S21
S9
S18
S15
S11
S4
50 2 REQD.
18
17
22
9
53 52 50
50 52 53
15
17
19 2 REQD.
53 52 50
2 30
11
14
53 52 50
10
53 52 50
23
53 52 50
13



SIDE VIEW S11



BOTTOM VIEW S16



BOTTOM VIEW S9

Ⓐ THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS + — − — DECIMALS + — − — ANGLES + — − — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN DATE CHECKED APPROVAL APPROVAL	MANNED SPACECRAFT CENTER HOUSTON, TEXAS G&N INDICATOR CONTROL PANEL ASSEMBLY
APPLICATION			MATERIAL	NASA APPROVAL	CODE IDENT NO · SIZE E · 1014664
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			CONTRACT	MIT APPROVAL	SCALE — · SHEET 3 OF 3

1014664 A

APOLLO G&N Specification
PS1014664 A
Original Issue Date: 2-24-65
Release Authority: TDRR 16795
Class A **Release**

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
6-23-65	A	20362	8 [illegible]	W.K.	J.B.

This specification consists of page 1 **to** 11 **inclusive.**

APPROVALS	2/24/65 **NASA/MSC**	2/20/65 2/24/65 **MIT/IL**	**ACSP**

3.3.2.5 Panel Brightness Control. The PANEL BRIGHTNESS control shall operate as follows:

a. With PANEL BRIGHTNESS control set in the extreme "DECREASE" position and the switches actuated into their open position; the resistance between pins P1-32 and P1-26 shall be no less than 100 megohms, and the resistance between pins P1-44 and P1-32 shall be 1.0 ohm max.

b. With the PANEL BRIGHTNESS control rotated in the "INCREASE" direction to the point at which the switches are just actuated into their closed position: (approx. one-tenth of full rotation) the resistance between pins P1-32 and P1-26 shall be less than 1.0 ohm and the resistance of the potentiometer existing between pins P1-44 and P1-32 shall be 1.0 ohm max.

c. With the PANEL BRIGHTNESS control rotated to the extreme "INCREASE" position: the resistance between pins P1-32 and P1-26 shall be less than 1.0 ohms and the potentiometer resistance existing between pins P1-44 and P1-32 shall be 1.5±0.15 K ohms. The resistance of the potentiometer shall increase without interruption as the control is rotated to the extreme "INCREASE" position.

3.3.2.6 Condition Lamps. With no power applied and the CHECK CONDITION LAMPS switch S1 and CONDITION LAMPS switch S5 in the positions specified in Table VII, the continuity through the switches shall be as specified in Table VII.

TABLE VII

CONDITION LAMPS CONTINUITY

PINS		SWITCH POSITIONS		CONTINUITY
FROM	TO	CHECK CONDITION LAMPS-S1	CONDITION LAMPS-S5	RESISTANCE (ohms)
51	73	OUT	OPTIONAL	100 Meg Min
14	15	OUT	↑	100 Meg Min
51	73	IN	↓	1.0 Max
14	15	IN	OPTIONAL	1.0 Max
26	38	OPTIONAL	"OFF"	100 Meg Min
26	39	↑	↑	↑
26	62	↕	↕	↕
26	99	↕	↓	↓
26	107	↕	"OFF"	100 Meg Min
26	38	↕	"ON"	1.0 Max
26	39	↕	↑	↑
26	62	↕	↕	↕
26	99	↓	↓	↓
26	107	OPTIONAL	"ON"	1.0 Max

REVISIONS 3325					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		REVISED PER TDRR 17726		25 MA 65	
B		REVISED PER TDRR 17729		25 6	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014664.
3. SERIALIZE PER ND 1002023
4. SOLDER PER ND1002071 USING ITEMS ㊶ AND ㊷
5. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING
6. ① DIMENSION CONTROLLED BY ICD MH01-01006-116.
7. ② DIMENSION CONTROLLED BY ICD MH01-01004-116.
8. MOISTURE PROOFING:
   a. THE PANEL ASSEMBLY, WITHOUT THE SEXTANT HAND CONTROLLER ASSY, ITEM ④, SHALL HAVE ALL SOLDERED ELECTRICAL COMPONENT CONNECTIONS ENCAPSULATED TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236.
   b. UPON COMPLETION OF 8a. ASSEMBLE THE SEXTANT HAND CONTROLLER ASSY, ITEM ④, INTO THE PANEL ASSEMBLY AND ENCAPSULATE ALL SOLDERED ELECTRICAL TERMINATIONS ON TB-1 TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236, EXCEPT THE OVEN TEMPERATURE SHALL BE 130°±5°F FOR 16 HOURS MINIMUM.
   c. CONDUCTOR INSULATION SHALL EXTEND INTO THE ENCAPSULATION 0.18±0.06 INCHES.
9. SECURE ITEM ㊽ IN ITEM ④, USING ITEM (58) PER ND1002211. DO NOT REMOVE THE TEMPORARY SCREW AND GASKET MORE THAN 10 MINUTES PRIOR TO INSTALLING ITEM ㊽.

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	AR		63	1012504-2	PRIMER, METAL
	AR		62	1012504-1	PRIMER, METAL
	1		61	1023003	CAP PUSHBUTTON
	1		60	1023002-001	HANDLE
	1		59	1023002-002	HANDLE
	AR		58	MIL-S-22473 GRADE C	SEALING COMPOUND, RETAINING
SEE NOTE 5	AR		57	1012503-2	COMPOUND, POLYURETHANE
SEE NOTE 5	AR		56	1012503-1	COMPOUND, POLYURETHANE
	λ		55	PS1014664	SPECIFICATION
	X		54	1014662	SCHEMATIC DIAGRAM, ELECT
SEE NOTE 5	10		53	1000220-7 THRU 1000220-12	CLAMP, CABLE
	8		52	1011918-3	WASHER-CABLE CLAMP
	2		51	1011918-1	WASHER-CABLE CLAMP
	13		50	1006783-22	SCREW-BUTTON HD.
	4		49	NAS1081C06D3L	SCREW-SET, SELF LOCK
	3		48	1006783-18	SCREW-BUTTON HD.
	4		47	1010630-25	SCREW-FLAT HD.
	10		46	1006783-19	SCREW-BUTTON HD.
			45		
SEE NOTE 5	12		44	1010630-14	SCREW-FLAT HD.
			43		
	AR		42	QQ-S-571 SN60WRAP2	SOLDER
	AR		41	MIL-F-14256	FLUX (ES-2798)
	10		40	1014503	SCREW-CAPTIVE
SEE NOTE 5	2		39	1010268-2	LAMP-INCANDESCENT
SEE NOTE 5	2		38	1010625-1	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		34	1014584	GASKET, WINDOW
	2		33	1014583	CLAMP, WINDOW
	2		32	1014530	PIN-CONNECTOR
	2		31	1014528	PIN-PANEL
	1		30	1014588	WHEEL, POTENTIOMETER
	2		29	MS-16633-4009	RING-RETAINING
	1		28	1014586	SUPPORT, HAND CONTROLLER
	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
SEE NOTE 5	9		26	1010475-1	CAP, PUSHBUTTON
	2		25	NAS1081C04D3L	SCREW, SET, SELF LOCK
	2		24	1014585-003	KNOB, ROTARY SWITCH
SEE NOTE 5	1		23	1010906-4	SWITCH ASSY, ROTARY
			22	1010906-2	SWITCH ASSY, ROTARY
			21		
	1		20	1010907-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
	2		19	1010904-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010904-2	SWITCH ASSY, PUSH BUTTON
	4		17	1010904-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010903-2	SWITCH ASSY, TOGGLE
	1		14	1010905-2	SWITCH ASSY, TOGGLE
	1		13	1010905-1	SWITCH ASSY, TOGGLE
	1		12	1010903-1	SWITCH ASSY, TOGGLE
	1		11	1010902-2	SWITCH ASSY, TOGGLE
	2		10	1010902-1	SWITCH ASSY, TOGGLE
	1		9	1006783-21	SCREW, BUTTON HD
SEE NOTE 5	1		8	1010624-2	LAMP, INCANDESENT
	1		7	1010492	TRANSFORMER, POWER
	1		6	1014650-12	NAME PLATE
	1		5	1015048-011	ATTITUDE IMPULSE SWITCH ASSY.
	1		4	1021700-021	SEXTANT HAND CONTROLLER ASSY.
	1		3	1014665	HARNESS
	1		2	1014591-021	BRACKET & POT. ASSEMBLY
	1		1	1014663	PANEL, G&N IND.CONT.(INSEP.)

LIST OF PARTS AND MATERIALS

1014664 B

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

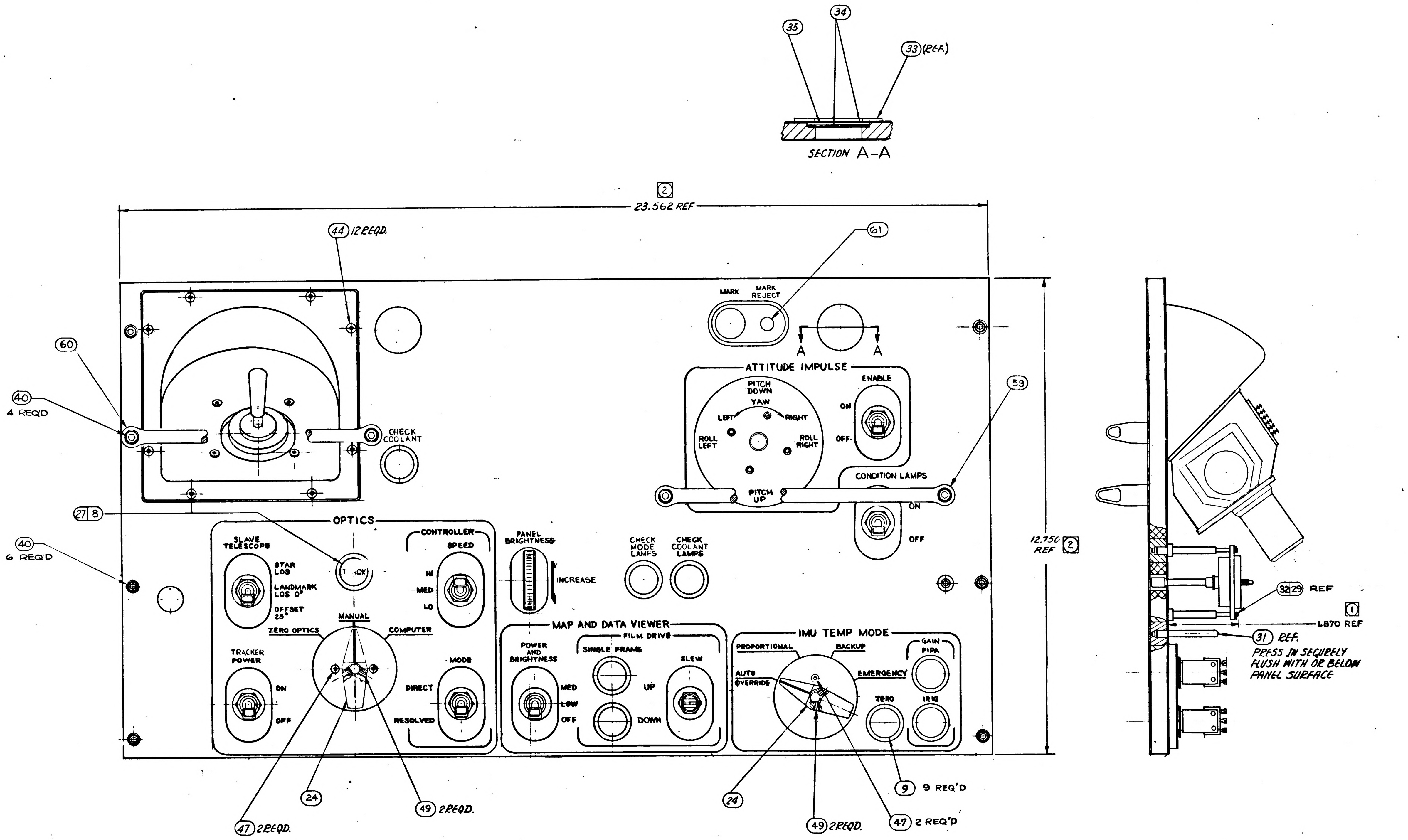
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Cole DATE 17 SEP 64
CHECKED G. Bechine 9/26/64
APPROVAL 9/26/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014664
SCALE
WEIGHT
SHEET 1 OF 3

REVISIONS TDRR 1772					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		THIS SHEET ADDED PER TDRR 17726		23 MAR 65	
B		REVISED PER TDRR 17729		25 MAR 65	



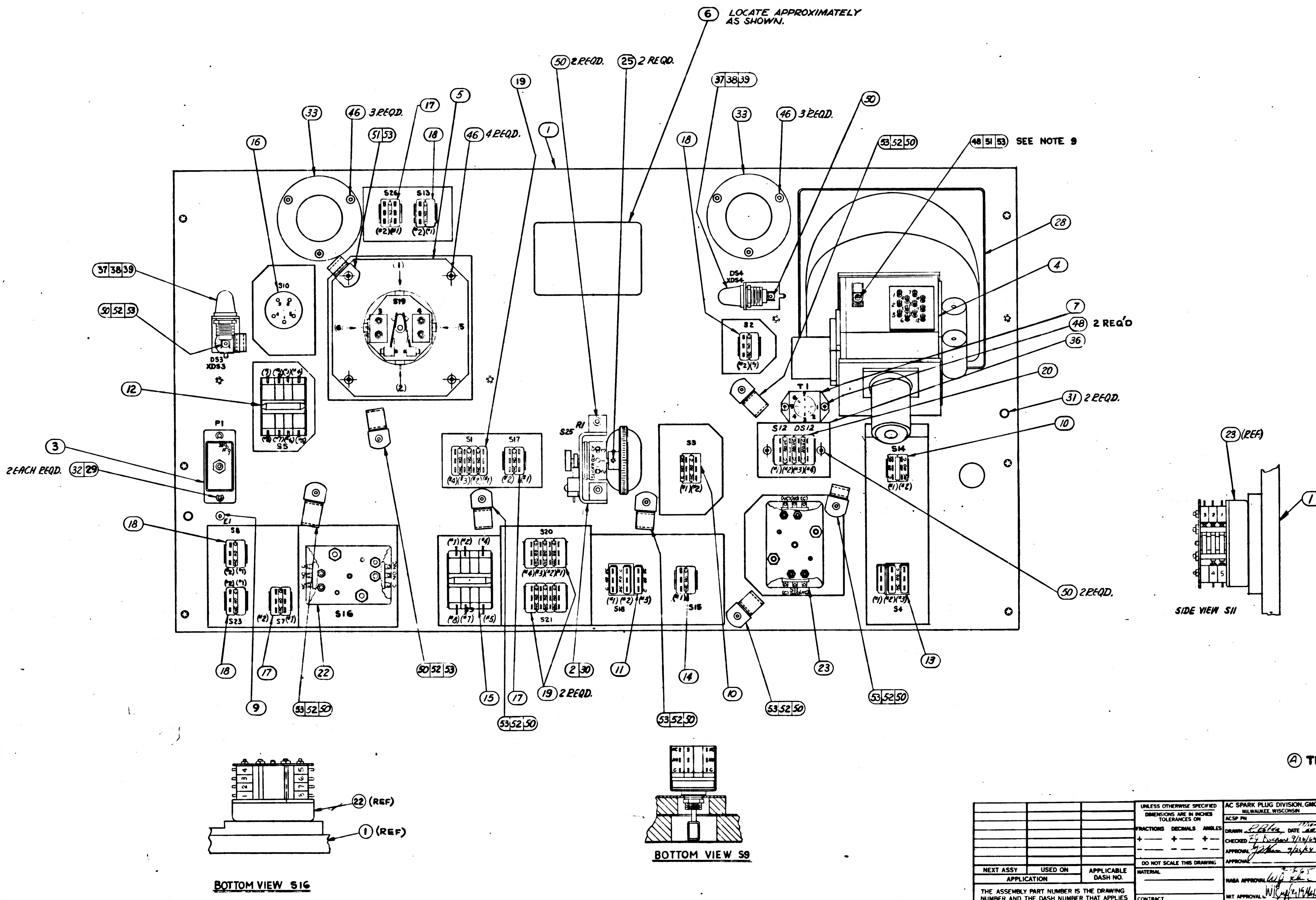
35
34
33 (REF.)
SECTION A-A
2
23.562 REF
44 12 REQD.
61
MARK
MARK REJECT
A
A
60
40 4 REQ'D
CHECK COOLANT
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
59
CONDITION LAMPS
ON
OFF
27 8
40 6 REQ'D
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK COOLANT LAMPS
12.750 REF 2
ZERO OPTICS
MANUAL
COMPUTER
TRACKER POWER
ON
OFF
MODE
DIRECT
RESOLVED
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
MED
LOW
OFF
FILM DRIVE
SINGLE FRAME
UP
DOWN
SLEW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
ZERO
GAIN
PIPA
IRIG
32 29 REF
1
1.870 REF
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE
24
47 2 REQD.
49 2 REQD.
24
49 2 REQD.
9 9 REQ'D
47 2 REQ'D

Ⓐ THIS SHEET ADDED

			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
			FRACTIONS ± — DECIMALS ± — ANGLES ± —	ACSP PN	G & N INDICATOR CONTROL PANEL ASSEMBLY
			DO NOT SCALE THIS DRAWING	DRAWN R. Rolka DATE 12/15/64 CHECKED Ey Dochme 9/26/64 APPROVAL J. Klees 9/26/64 APPROVAL	
NEXT ASSY	USED ON	APPLICABLE DASH NO.	MATERIAL	NASA APPROVAL 3-15-65	CODE IDENT NO. SIZE E 1014664
APPLICATION				MIT APPROVAL	
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			CONTRACT NAS 9-497		SCALE — SHEET 2 OF 3

1014664 B

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		REVISIONS TDRR 17725			
A		THIS SHEET ADDED PER TDRR 17726			
B		REVISED PER TDRR 17729			



6 LOCATE APPROXIMATELY AS SHOWN.
50 2 REQD.
25 2 REQD.
19
1
37 38 39
33
46 3 REQD.
17
5
16
51 53
18
46 4 REQD.
50
53 52 50
48 51 53 SEE NOTE 9
28
4
7
48 2 REQ'D
36
20
31 2 REQD.
10
50 2 REQD.
13
23
53 52 50
10
14
11
53 52 50
2 30
19 2 REQD.
17
15
50 52 53
22
53 52 50
9
18
12
3
2 EACH REQD. 32 29
50 52 53
37 38 39
S10
S19
S26
S13
DS3 XDS3
S5
P1
E1
S8
S23
S7
S16
S1
S17
R1
S25
S20
S21
S18
S15
S3
S2
DS4 XDS4
T1
S12 DS12
S14
S4
23 (REF)
1 (REF)
SIDE VIEW S11
22 (REF)
1 (REF)
BOTTOM VIEW S16
BOTTOM VIEW S9

Ⓐ THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Bl DATE 11/Sept 64
CHECKED F.G. Buchana 9/26/64
APPROVAL 9/26/64
APPROVAL
NASA APPROVAL 3-5-65
MIT APPROVAL 2/19/65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014664
SCALE ——
SHEET 3 OF 3

1014664 B

APOLLO G&N Specification
PS1014664 **B**
Original Issue Date: 2-24-65
Release Authority: TDRR 16795
Class A **Release**

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
6-23-65	A	20362	8	W. K.	J. B.
2/10/66	B	26152	1-11 Now 12 pages, was	W. K.	----
			11 pages.		

This specification consists of page 1 **to** 12 **inclusive.**

APPROVALS	2/24/65 **NASA/MSC**	2/20/65 **MIT/IL** 2/24/65	**ACSP**

3. REQUIREMENTS

3.1 GENERAL SPECIFICATION. Unless otherwise specified herein, all of the requirements of Specification ND-1002210 shall apply as requirements for this specification.

3.2 DESCRIPTION. The assembly shall contain the Sextant Hand Controller Assembly, the Attitude Impulse Switch Assembly, the IMU temperature mode controls, the Map and Data Viewer controls, the Power and Film position controls, and the panel brightness control.

3.3 FUNCTIONAL REQUIREMENTS

3.3.1 Electrical Inputs. The assembly shall perform as specified herein with the following electrical inputs:

a. 24 vdc max
b. 5.50±0.25V rms, 400±20 cps
c. 28.00±0.28V rms, 760±40 cps

3.3.2 Continuity and DC Resistance. The continuity and dc resistance of the assembly shall be as specified in Table I and 3.3.2.1 through 3.3.2.7, using Method 303 of Standard MIL-STD-202 (Reference Drawing 1014662, Type I) (Reference Drawing 1023070, Type II).

TABLE I

CONTINUITY AND DC RESISTANCE

PINS		RESISTANCE (ohms)	
FROM	TO		
40	50	220 to 265	Type I & II
69	80	110 max	
91	Chassis*	0.02 max	
51	67	0.5 max	Type II only

* Connect to back skin, but not to mounting pads.

3.3.2.1 Optics Group and Sextant Hand Controller. With either 28.00±0.28V rms, 720 cps±1% or 28.00±0.28V rms, 800 cps ±1% applied between pins 80 (Hi) and 69 (Lo); 5.50±0.25V rms, 400±20 cps applied between pins 54 (Hi) and 52 (Lo); and the sextant hand controller and the optics switches in the positions specified in Table II, the outputs and continuity shall be as specified in Table II.

3.3.2.2 Map and Data Viewer Switch Continuity Type I Only. With no power applied and the map and data viewer switches set in the positions specified in Table III, the continuity through these switches shall be as specified in Table III.

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER TDRR 17720			
B		REVISED PER TDRR 17723			
C		REVISED PER TDRR 20360			

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. INSPECT PER PS 1014664.

3. SERIALIZE PER ND 1002023

4. SOLDER PER ND1002071 USING ITEMS ㊶ AND ㊷

5. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING

6. ◯ DIMENSION CONTROLLED BY ICD MH01-01006-116.

7. ◯ DIMENSION CONTROLLED BY ICD MH01-01004-116.

8. MOISTURE PROOFING:
   a. THE PANEL ASSEMBLY, WITHOUT THE SEXTANT HAND CONTROLLER ASSY, ITEM ④, SHALL HAVE ALL SOLDERED ELECTRICAL COMPONENT CONNECTIONS ENCAPSULATED TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236.
   b. UPON COMPLETION OF 8a. ASSEMBLE THE SEXTANT HAND CONTROLLER ASSY, ITEM ④, INTO THE PANEL ASSEMBLY AND ENCAPSULATE ALL SOLDERED ELECTRICAL TERMINATIONS ON TB-1 TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236, EXCEPT THE OVEN TEMPERATURE SHALL BE 130°±5°F FOR 16 HOURS MINIMUM.
   c. CONDUCTOR INSULATION SHALL EXTEND INTO THE ENCAPSULATION 0.18±0.06 INCHES.

9. SECURE ITEM ㊽ IN ITEM ④, USING ITEM (58) PER ND1002211. DO NOT REMOVE THE TEMPORARY SCREW AND GASKET MORE THAN 10 MINUTES PRIOR TO INSTALLING ITEM ㊺.

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTE 5	4		64	1010477-13	SCREW, FLAT HD. SELF LOCK
	AR		63	1012504-2	PRIMER, METAL
	AR		62	1012504-1	PRIMER, METAL
	1		61	1023003	CAP PUSHBUTTON
	1		60	1023002-001	HANDLE
	1		59	1023002-002	HANDLE
	AR		58	MIL-S-22473 GRADE C	SEALING COMPOUND, RETAINING
SEE NOTE 5	AR		57	1012503-2	COMPOUND, POLYURETHANE
SEE NOTE 5	AR		56	1012503-1	COMPOUND, POLYURETHANE
	X		55	PS1014664	SPECIFICATION
			54	1014662	SCHEMATIC DIAGRAM, ELECT
SEE NOTE 5 ↓	10		53	1000220-1 THRU 1000220-12	CLAMP, CABLE
	6		52	1011918-3	WASHER-CABLE CLAMP
	2		51	1011918-1	WASHER-CABLE CLAMP
	13		50	1006783-22	SCREW-BUTTON HD.
	4		49	NAS1081C06D3L	SCREW-SET, SELF LOCK
	3		48	1006783-18	SCREW-BUTTON HD.
	4		47	1010630-25	SCREW-FLAT HD.
	10		46	1006783-19	SCREW-BUTTON HD.
			45		
SEE NOTE 5	8		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			43		
	AR		42	QQ-S-571 SN60WRAP2	SOLDER
	AR		41	MIL-F-14256	FLUX (ES-2798)
	10		40	1014503	SCREW - CAPTIVE
SEE NOTE 5	2		39	1010268-2	LAMP-INCANDESCENT
SEE NOTE 5	2		38	1010625-1	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		34	1014584	GASKET, WINDOW
	2		33	1014583	CLAMP, WINDOW
	2		32	1014530	PIN-CONNECTOR
	2		31	1014528	PIN-PANEL
	1		30	1014588	WHEEL, POTENTIOMETER
	2		29	MS-16633-4009	RING-RETAINING
	1		28	1014586	SUPPORT, HAND CONTROLLER
	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
SEE NOTE 5	9		26	1010475-1	CAP, PUSHBUTTON
	2		25	NAS1081CC4D3L	SCREW, SET, SELF LOCK
	2		24	1014585-003	KNOB, ROTARY SWITCH
SEE NOTE 5 ↓	1		23	1010906-4	SWITCH ASSY, ROTARY
	1		22	1010906-2	SWITCH ASSY, ROTARY
			21		
	1		20	1010907-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
	2		19	1010904-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010904-2	SWITCH ASSY, PUSH BUTTON
	4		17	1010904-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010903-2	SWITCH ASSY, TOGGLE
	1		14	1010905-2	SWITCH ASSY, TOGGLE
	1		13	1010905-1	SWITCH ASSY, TOGGLE
	1		12	1010903-1	SWITCH ASSY, TOGGLE
	1		11	1010902-2	SWITCH ASSY, TOGGLE
	2		10	1010902-1	SWITCH ASSY, TOGGLE
	1		9	1006783-21	SCREW, BUTTON HD
	1		8	1010624-2	LAMP, INCANDESENT
SEE NOTE 5	1		7	1010492	TRANSFORMER, POWER
	1		6	1014650-12	NAME PLATE
	1		5	[illegible]45-011	ATTITUDE IMPULSE SWITCH ASSY.
	1		4	1021700-021	SEXTANT HAND CONTROLLER ASSY.
	1		3	1014665	HARNESS
	1		2	1014591-021	BRACKET & POT. ASSEMBLY
	1		1	1014663	PANEL, G&N IND. CONT. (INSEP.)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

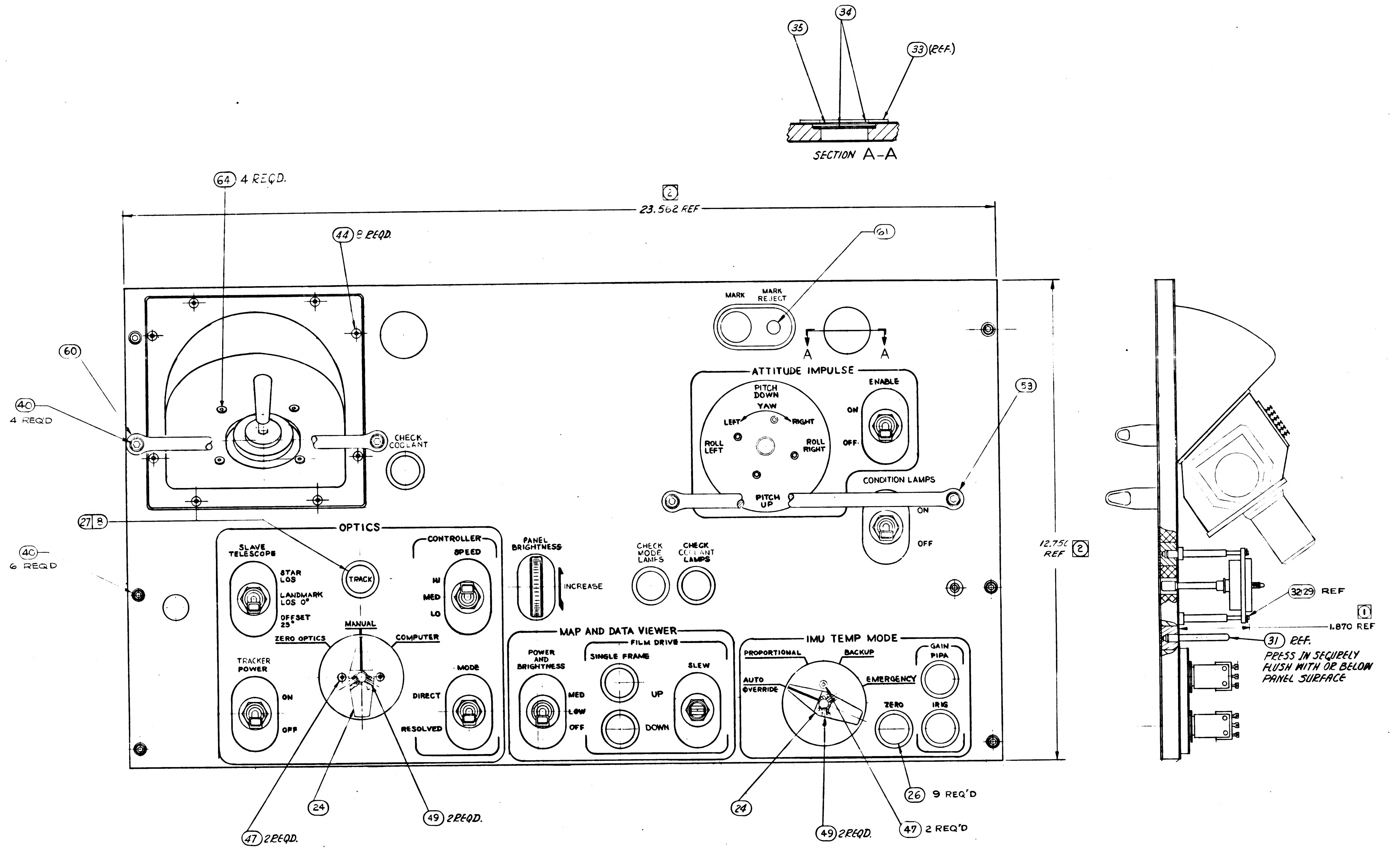
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. Petva DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO. 39374
SIZE E
1014664
SCALE —
WEIGHT
SHEET 1 OF 3

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		THIS SHEET ADDED PER TDRR 17726		[illegible]	[illegible]
B		REVISED PER TDRR 17729		[illegible]	[illegible]
C		REVISED PER TDRR 20300		[illegible]	[illegible]



35
34
33 (REF.)
SECTION A-A
64 4 REQD.
2
23.562 REF
44 8 REQD.
61
MARK
MARK REJECT
A
A
60
40 4 REQD
CHECK COOLANT
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
53
CONDITION LAMPS
ON
OFF
27 B
40 6 REQD
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
ZERO OPTICS
MANUAL
COMPUTER
TRACKER POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK COOLANT LAMPS
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
MED
LOW
OFF
FILM DRIVE
SINGLE FRAME
UP
DOWN
SLEW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
ZERO
GAIN
PIPA
IRIG
12.750 REF 2
32 29 REF
1
1.870 REF
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE
24
47 2 REQD.
49 2 REQD.
24
49 2 REQD.
47 2 REQ'D
26 9 REQ'D

1014664 C

Ⓐ THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ — + — + —
− — − — − —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

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HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. 99974
SIZE E
1014664
SCALE
SHEET 2 OF 3

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
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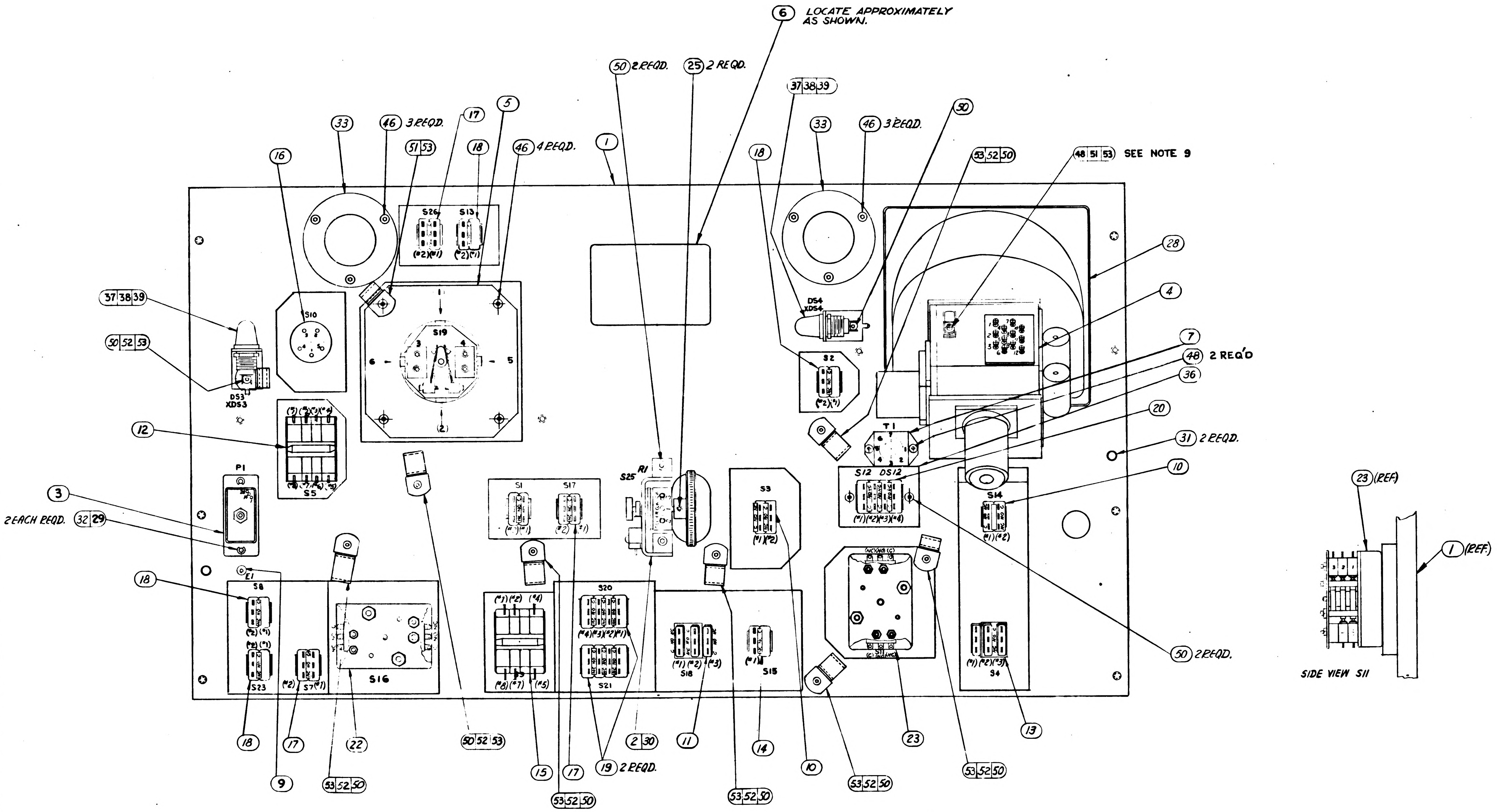
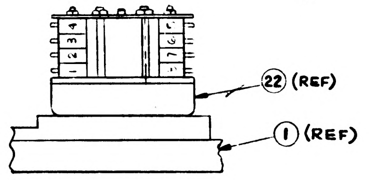
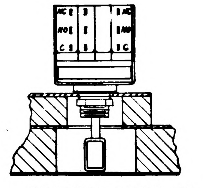
B		REVISED PER TDRR 17729			
C		REVISED PER TDRR 20360			



6 LOCATE APPROXIMATELY AS SHOWN.
50 2 REQD.
25 2 REQD.
37 38 39
50
53 52 50
48 51 53 SEE NOTE 9
33
46 3 REQD.
17
5
51 53
18
46 4 REQD.
1
16
S26
S13
S10
S19
D54 XD54
S2
28
4
7
48 2 REQ'D
36
20
31 2 REQD.
10
T1
S12 DS12
S14
37 38 39
50 52 53
DS3 XDS3
12
S5
P1
3
2 EACH REQD. 32 29
E1
18
S8
S23
S7
S16
S1
S17
R1
S25
S3
S20
S21
S18
S15
S4
23
50 2 REQD.
18
17
9
22
53 52 50
50 52 53
15
17
53 52 50
19 2 REQD.
2 30
11
14
53 52 50
10
53 52 50
23
53 52 50
13
23 (REF)
1 (REF)
SIDE VIEW S11



BOTTOM VIEW S16



BOTTOM VIEW S9

Ⓐ THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. Cates DATE
CHECKED 9/26/64
APPROVAL 9/26/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
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HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.	SIZE	
99974	E	1014664
SCALE —		SHEET 3 OF 3

1014664 C

APOLLO G&N Specification
PS1014664 C
Original Issue Date: 2-24-65
Release Authority: TDRR 16795
Class A Release

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
6-23-65	A	20362	8	W. K.	J. B.
2/10/66	B	26152	1-11 Now 12 pages, was	W. K.	----
			11 pages. RDG/AC		
3/29/66	C	27460	2, 10 RDG/AC	WK	--

This specification consists of page 1 to 12 inclusive.

APPROVALS	2/24/65 NASA/MSC	2/20/65 2/24/65 MIT/IL	ACSP

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014664, hereafter called the assembly.

1.2 CLASSIFICATION. Unless otherwise specified, all types shall meet all the requirements specified herein. Special requirements for the equipment covered by this specification shall be classified as follows:

a. Type I: The special requirements for Part Number 1014664-011 shall be designated as Type I.

b. Type II: The special requirements for Part Number 1014664-021 shall be designated as Type II.

c. Type III: The special requirements for Part Number 1014664-031 shall be designated as Type III.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND1002214	General Specification for Packaging AGE
ND1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM1014664	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

3.3.2.7 Mark Button. The MARK button operation shall be as follows;

a. With the MARK button not depressed, the resistance between pins 1 and 31 shall be greater than 100 megohms.

b. With the MARK button depressed, the resistance between pins 1 and 31 shall be 1.0 ohm max.

3.3.2.8 Mark Reject Button. The MARK REJECT button operation shall be as follows:

a. With the MARK REJECT button not depressed, the resistance between pins 47 and 30 shall be 1.0 ohms max, the resistance between pins 47 and 33 and between pins 43 and 60 shall be greater than 100 megohms.

b. With the MARK REJECT button depressed, the resistance between pins 47 and 30 shall be greater than 100 megohms, and the resistance between pins 47 and 33 and between pins 43 and 60 shall be 1.0 ohms max.

3.3.3 Insulation Resistance. The insulation resistance from pins 83 and 91 to all other pins shall be no less than 100 megohms when tested in accordance with Method 302 of Standard MIL-STD-202, with 150 to 200 vdc applied,

3.3.4 Lamp Operation. With 5.50±0.25V rms, 400±20 cps applied between pins 61 (Hi) and 52 (Lo):

a. The check coolant lamps shall illuminate when the CHECK COOLANT button is depressed and the intensity of illumination shall be 100.0 foot-lamberts minimum at the filament of the lamps.

b. The TRACK button, in the normal (not depressed) position, shall illuminate when the CHECK MODE LAMPS button is depressed.

c. (For Types I and II only) the TRACK button, in the actuated (depressed) position, shall illuminate when the CHECK MODE LAMPS button is depressed and the illumination of the TRACK button shall be 4 foot-lamberts minimum as determined by the average of five 0.015 inch nominal diameter areas equally spaced along the horizontal center line of the push-button face. Only the illuminated surface of the pushbutton which is on a plane parallel to the front surface of the G&N Indicator Control Panel shall be measured.

d. The applied voltage, ±0.5V rms, shall exist between pins 54 (Hi) and 52 (Lo) and between pins 84 (Hi) and 52 (Lo) when the CHECK MODE LAMPS button is depressed.

SYM	ZONE	DESCRIPTION	CHG NO	DAT	APPD
A		REVISED PER TDRR 1772		65	
B		REVISED PER TDRR 17723		65	
C		REVISED PER TDRR 20360		20 JUN 65	
D		REVISED PER TDRR 21641		20 AUG 65	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014664.
3. SERIALIZE PER ND 1002023
4. SOLDER PER ND1002071 USING ITEMS (41) AND (42)
5. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING
6. ① DIMENSION CONTROLLED BY ICD MH01-01006-116.
7. ② DIMENSION CONTROLLED BY ICD MH01-01004-116.
8. MOISTURE PROOFING:
   a. THE PANEL ASSEMBLY, WITHOUT THE SEXTANT HAND CONTROLLER ASSY, ITEM ④, SHALL HAVE ALL SOLDERED ELECTRICAL COMPONENT CONNECTIONS ENCAPSULATED TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236.
   b. UPON COMPLETION OF 8a. ASSEMBLE THE SEXTANT HAND CONTROLLER ASSY, ITEM ④, INTO THE PANEL ASSEMBLY AND ENCAPSULATE ALL SOLDERED ELECTRICAL TERMINATIONS ON TB-1 TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236, EXCEPT THE OVEN TEMPERATURE SHALL BE 150°±5°F FOR 10 HOURS MINIMUM.
   c. CONDUCTOR INSULATION SHALL EXTEND INTO THE ENCAPSULATION 0.18±0.06 INCHES.
9. SECURE ITEM (48) IN ITEM ④, USING ITEM (58) PER ND1002211. DO NOT REMOVE THE TEMPORARY SCREW AND GASKET MORE THAN 10 MINUTES PRIOR TO INSTALLING ITEM (48).

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTE 5	4		64	1010477-13	SCREW, FLAT HD. SELF LOCK
	AR		63	1012504-2	PRIMER, METAL
	AR		62	1012504-1	PRIMER, METAL
	1		61	1023003	CAP PUSHBUTTON
	1		60	1023002-001	HANDLE
	1		59	1023002-002	HANDLE
	AR		58	MIL-S-22473 GRADE C	SEALING COMPOUND, RETAINING
SEE NOTE 5	AR		57	1012503-2	COMPOUND, POLYURETHANE
SEE NOTE 5	AR		56	1012503-1	COMPOUND, POLYURETHANE
			55	PS1014664	SPECIFICATION
			54	1014662	SCHEMATIC DIAGRAM, ELECT
SEE NOTE 5	10		53	1000220-1 THRU 1000220-12	CLAMP, CABLE
	8		52	1011918-3	WASHER-CABLE CLAMP
	2		51	1011918-1	WASHER-CABLE CLAMP
	3		50	1006783-22	SCREW-BUTTON HD.
	4		49	NAS1081C06D3L	SCREW-SET, SELF LOCK
	3		48	1006783-18	SCREW-BUTTON HD.
	4		47	1010630-25	SCREW-FLAT HD.
	10		46	1006783-19	SCREW-BUTTON HD.
			45		
SEE NOTE 5	8		44	1010630-14	SCREW-FLAT HD.
			43		
	AR		42	QQ-S-571 SN60WRAP2	SOLDER
	AR		41	MIL-F-14256	FLUX (ES-2798)
	10		40	1014503	SCREW - CAPTIVE
SEE NOTE 5	2		39	1010268-2	LAMP-INCANDESCENT
SEE NOTE 5	2		38	1010625-1	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		34	1014584	GASKET, WINDOW
	2		33	1014583	CLAMP, WINDOW
	2		32	1014530	PIN-CONNECTOR
	2		31	1014528	PIN-PANEL
	1		30	1014588	WHEEL, POTENTIOMETER
	2		29	MS-16633-4009	RING-RETAINING
	1		28	1014586	SUPPORT, HAND CONTROLLER
	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
SEE NOTE 5	9		26	1010475-1	CAP, PUSHBUTTON
	2		25	NAS1081C04D3L	SCREW, SET, SELF LOCK
	2		24	1014585-003	KNOB, ROTARY SWITCH
SEE NOTE 5	1		23	1010906-4	SWITCH ASSY, ROTARY
	1		22	1010906-2	SWITCH ASSY, ROTARY
			21		
	1		20	1010907-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
	2		19	1010904-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010904-2	SWITCH ASSY, PUSH BUTTON
	4		17	1010904-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010903-2	SWITCH ASSY, TOGGLE
	1		14	1010905-2	SWITCH ASSY, TOGGLE
	1		13	1010905-1	SWITCH ASSY, TOGGLE
	1		12	1010903-1	SWITCH ASSY, TOGGLE
	1		11	1010902-2	SWITCH ASSY, TOGGLE
	2		10	1010902-1	SWITCH ASSY, TOGGLE
	1		9	1006783-21	SCREW, BUTTON HD
	1		8	1010624-2	LAMP, INCANDESENT
	1		7	1010492	TRANSFORMER, POWER
SEE NOTE 5	1		6	1014650-12	NAME PLATE
	1		5	[illegible]-011	ATTITUDE IMPULSE SWITCH ASSY.
	1		4	1021700-021	SEXTANT HAND CONTROLLER ASSY.
	1		3	1014665	HARNESS
	1		2	1014591-021	BRACKET & POT. ASSEMBLY
	1		1	1014663	PANEL, G&N IND. CONT. (INSEP.)

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 64
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

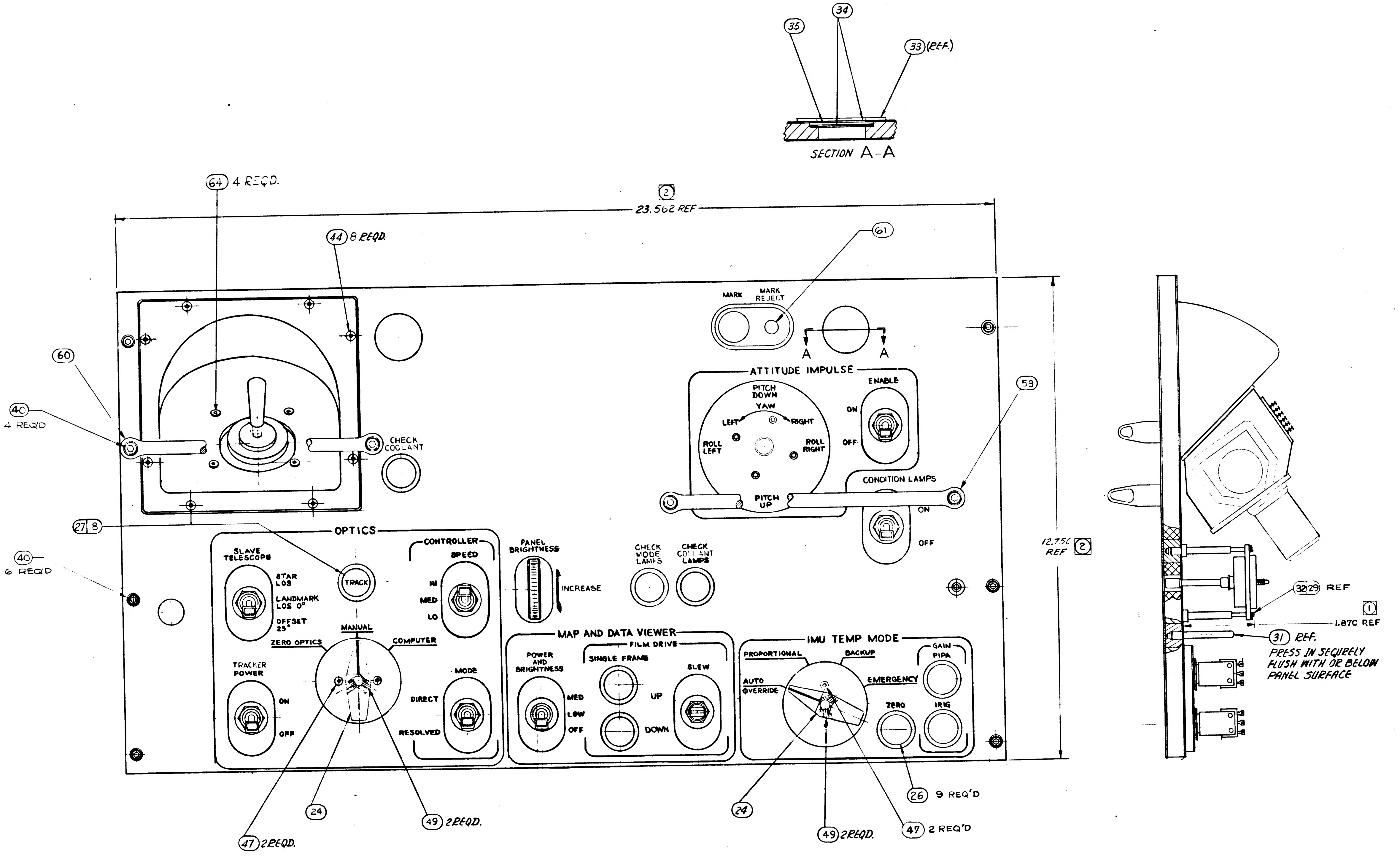
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. 99974
SIZE E
1014664
SCALE —
WEIGHT
SHEET 1 OF 3

D 1014664

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		THIS SHEET ADDED PER TDRR 17726		[illegible] 65	[illegible]
B		REVISED PER TDRR 17729		[illegible] 65	[illegible]
C		REVISED PER TDRR 20360		[illegible] 65	[illegible]
D		REVISION STATUS CHANGED		20 AUG 65	[illegible]



(35)
(34)
(33) (REF.)
SECTION A-A
(64) 4 REQD.
(44) 8 REQD.
(2)
23.562 REF
(61)
MARK
MARK REJECT
A
A
(60)
(40) 4 REQ'D
CHECK COOLANT
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
(59)
CONDITION LAMPS
ON
OFF
(27) 8
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
ZERO OPTICS
MANUAL
COMPUTER
TRACKER POWER
ON
OFF
MODE
DIRECT
RESOLVED
(40) 6 REQ'D
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK COOLANT LAMPS
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
MED
LOW
OFF
FILM DRIVE
SINGLE FRAME
UP
DOWN
SLEW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
ZERO
GAIN
PIPA
IRIG
12.750 REF (2)
(24)
(47) 2 REQD.
(49) 2 REQD.
(24)
(49) 2 REQD.
(47) 2 REQ'D
(26) 9 REQ'D
(32)(29) REF
(1)
1.870 REF
(31) REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE

(A) THIS SHEET ADDED

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

NEXT ASSY | USED ON | APPLICABLE DASH NO.
APPLICATION
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 1/26/64
APPROVAL [illegible] 1/24/64
APPROVAL
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED
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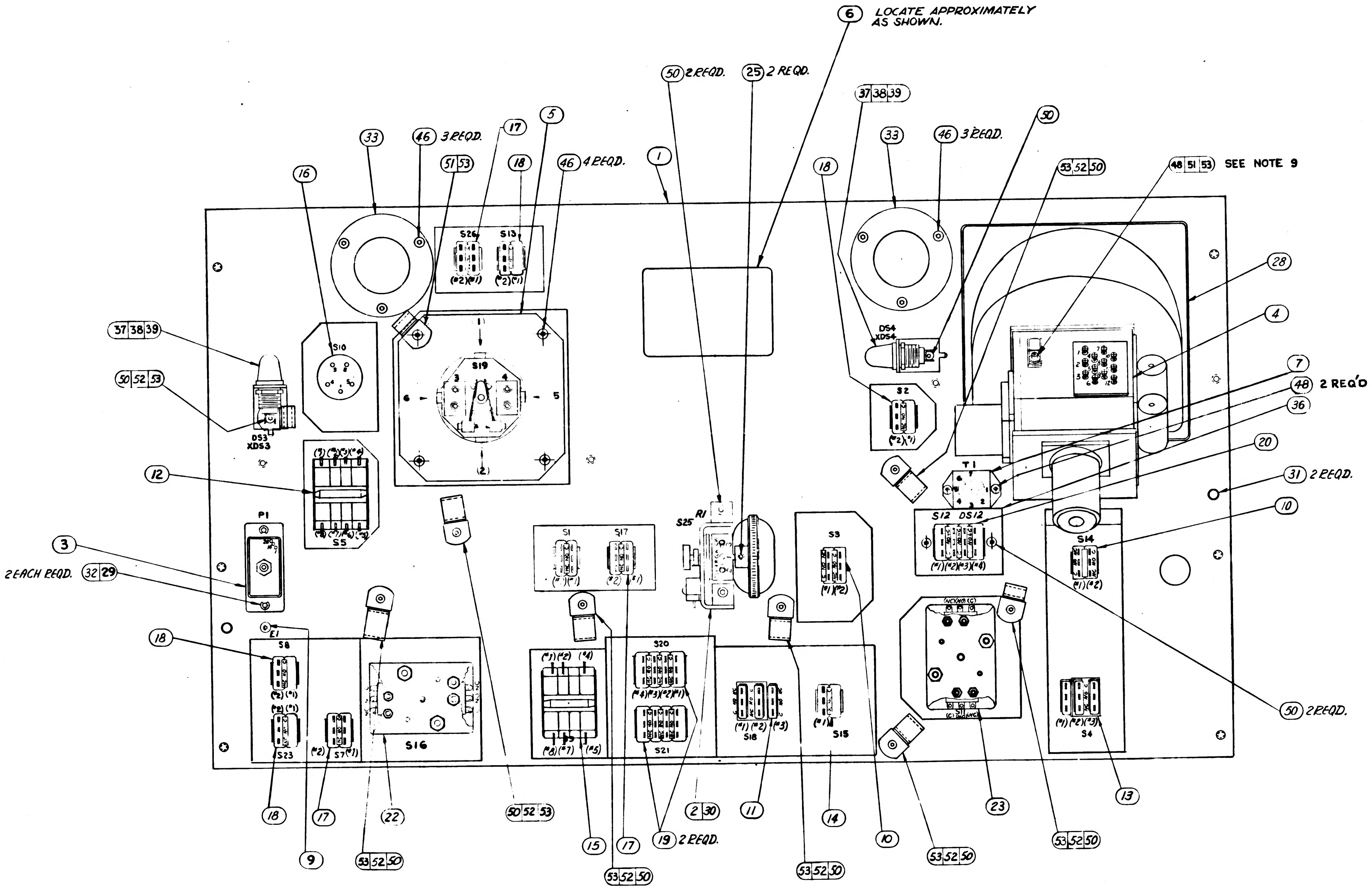
HOUSTON, TEXAS

G & N INDICATOR CONTROL PANEL
ASSEMBLY

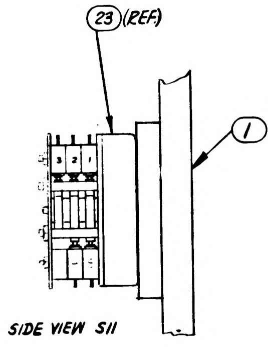
CODE IDENT NO. 99974
SIZE E
[illegible]664
SCALE —
SHEET 2 OF 3

1014664 D

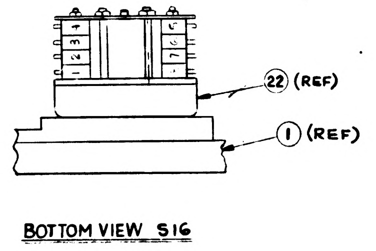
REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		THIS SHEET ADDED PER TDRR 17726			
B		REVISED PER TDRR 17729			
C		REVISED PER TDRR 20360			
D		REVISION STATUS CHANGED		20 AUG 65	



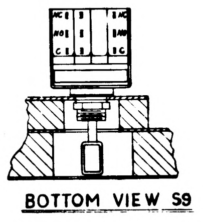
6 LOCATE APPROXIMATELY AS SHOWN.
50 2 REQD.
25 2 REQD.
37 38 39
33
46 3 REQD.
17
5
51 53
18
46 4 REQD.
1
16
50
53 52 50
48 51 53 SEE NOTE 9
28
4
7
48 2 REQ'D
36
20
31 2 REQD.
10
50 2 REQD.
37 38 39
50 52 53
DS3 XDS3
12
P1
S5
3
2 EACH REQD. 32 29
E1
S8
S23
S7
S16
S10
S19
S26
S13
DS4 XDS4
S2
T1
S12 DS12
S14
S4
S1
S17
R1
S25
S3
S20
S21
S18
S15
18
17
22
9
53 52 50
50 52 53
15
17
19 2 REQD.
53 52 50
2 30
11
14
53 52 50
10
53 52 50
23
53 52 50
13



SIDE VIEW S11



BOTTOM VIEW S16



BOTTOM VIEW S9

Ⓐ THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ +— +—
— — — — —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN _____ DATE _____
CHECKED _____ 9/26/64
APPROVAL _____ 9/25/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. 99974
SIZE E
1014664
SCALE —
SHEET 3 OF 3

1014664 D

REVISIONS 13325					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		REVISED PER TDRR 17726		[illegible] 65	JNP
B		REVISED PER TDRR 17729		25 MAR 65	JWP
C		REVISED PER TDRR 20360		2[illegible] JUN 65	REW
D		REVISED PER TDRR 21641		20 AUG 65	RP
E		REVISED PER TDRR 26162		21 FEB 66	RP

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014664.
3. SERIALIZE PER ND 1002023
4. SOLDER PER ND1002071 USING ITEMS (41) AND (42)
5. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING
6. ① DIMENSION CONTROLLED BY ICD MH01-01006-116.
7. ② DIMENSION CONTROLLED BY ICD MH01-01004-116.
8. MOISTURE PROOFING:
   a. THE PANEL ASSEMBLY, WITHOUT THE SEXTANT HAND CONTROLLER ASSY, ITEM ④, SHALL HAVE ALL SOLDERED ELECTRICAL COMPONENT CONNECTIONS ENCAPSULATED TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236.
   b. UPON COMPLETION OF 8a. ASSEMBLE THE SEXTANT HAND CONTROLLER ASSY, ITEM ④, INTO THE PANEL ASSEMBLY AND ENCAPSULATE ALL SOLDERED ELECTRICAL TERMINATIONS ON TB-1 TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236, EXCEPT THE OVEN TEMPERATURE SHALL BE 150°±5°F FOR 10 HOURS MINIMUM.
   c. CONDUCTOR INSULATION SHALL EXTEND INTO THE ENCAPSULATION 0.18±0.06 INCHES.
9. SECURE ITEM (48) IN ITEM ④, USING ITEM (58) PER ND1002211. DO NOT REMOVE THE TEMPORARY SCREW AND GASKET MORE THAN 10 MINUTES PRIOR TO INSTALLING ITEM (48).

	QUANTITY REQUIRED 021	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	1	—		73	1015048-031	ATTITUDE IMPULSE SWITCH ASSY
	1	—		72	2014764-011	HANDLE ASSY
	1	—		71	2014764-021	HANDLE ASSY
				70		
	1	—		69	1014650-30	NAMEPLATE
	X	—		68	1023070	SCHEMATIC
	1	—		67	1023071	WIRING HARNESS A
	1	—		66	1023072	PANEL, G&N IND. CONT. (INSEP)
				65		
SEE NOTE 5	4	4		64	1010477-13	SCREW, FLAT HD. SELF LOCK
	AR	AR		63	1012504-2	PRIMER, METAL
	AR	AR		62	1012504-1	PRIMER, METAL
	1	1		61	1023003	CAP PUSHBUTTON
	—	1		60	1023002-001	HANDLE
	—	1		59	1023002-002	HANDLE
	AR	AR		58	MIL-S-22473 GRADE C	SEALING COMPOUND, RETAINING
SEE NOTE 5	AR	AR		57	1012503-2	COMPOUND, POLYURETHANE
SEE NOTE 5	AR	AR		56	1012503-1	COMPOUND, POLYURETHANE
	X	X		55	PS1014664	SPECIFICATION
	—	X		54	1014662	SCHEMATIC DIAGRAM, ELECT
SEE NOTE 5 ↓	10	10		53	1000220-1 THRU 1000220-12	CLAMP, CABLE
	8	8		52	1011918-3	WASHER-CABLE CLAMP
	2	2		51	1011918-1	WASHER-CABLE CLAMP
	13	13		50	1006783-22	SCREW-BUTTON HD.
	4	4		49	NAS1081C06D3L	SCREW-SET, SELF LOCK
	3	3		48	1006783-18	SCREW-BUTTON HD.
	4	4		47	1010630-25	SCREW-FLAT HD.
	10	10		46	1006783-19	SCREW-BUTTON HD.
				45		
↑ SEE NOTE 5	8	8		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 021	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				43		
	AR	AR		42	QQ-S-571 SN60WRAP2	SOLDER
	AR	AR		41	MIL-F-14256	FLUX (ES-2798)
	—	10		40	1014503	SCREW-CAPTIVE
SEE NOTE 5	2	2		39	1010268-2	LAMP-INCANDESCENT
SEE NOTE 5	2	2		38	1010625-1	HOLDER, LAMP
	2	2		37	1014595	BRACKET, MOUNTING-LAMP
	1	1		36	1014594	PLATE, MOUNTING SWITCH
	2	2		35	1014587	WINDOW
	4	4		34	1014584	GASKET, WINDOW
	2	2		33	1014583	CLAMP, WINDOW
	2	2		32	1014530	PIN-CONNECTOR
	2	2		31	1014528	PIN-PANEL
	1	1		30	1014588	WHEEL, POTENTIOMETER
	2	2		29	MS-16633-4009	RING-RETAINING
	1	1		28	1014586	SUPPORT, HAND CONTROLLER
	1	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
SEE NOTE 5	9	9		26	1010475-1	CAP, PUSHBUTTON
	2	2		25	NAS1081C04D3L	SCREW, SET, SELF LOCK
	2	2		24	1014585-003	KNOB, ROTARY SWITCH
SEE NOTE 5 ↓	1	1		23	1010906-4	SWITCH ASSY, ROTARY
	1	1		22	1010906-2	SWITCH ASSY, ROTARY
				21		
	1	1		20	1010907-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
	2	2		19	1010904-3	SWITCH ASSY, PUSH BUTTON
	4	4		18	1010904-2	SWITCH ASSY, PUSH BUTTON
	4	4		17	1010904-1	SWITCH ASSY, PUSH BUTTON
	1	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1	1		15	1010903-2	SWITCH ASSY, TOGGLE
	1	1		14	1010905-2	SWITCH ASSY, TOGGLE
	1	1		13	1010905-1	SWITCH ASSY, TOGGLE
	1	1		12	1010903-1	SWITCH ASSY, TOGGLE
	1	1		11	1010902-2	SWITCH ASSY, TOGGLE
	2	2		10	1010902-1	SWITCH ASSY, TOGGLE
	1	1		9	1006783-21	SCREW, BUTTON HD
	1	1		8	1010624-2	LAMP, INCANDESENT
↑ SEE NOTE 5	1	1		7	1010492	TRANSFORMER, POWER
	—	1		6	1014650-12	NAME PLATE
	—	1		5	1015048-011	ATTITUDE IMPULSE SWITCH ASSY.
	1	1		4	1021700-021	SEXTANT HAND CONTROLLER ASSY.
	—	1		3	1014665	HARNESS
	1	1		2	1014591-021	BRACKET & POT. ASSEMBLY
	—	1		1	1014663	PANEL, G&N IND. CONT. (INSEP.)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN P. Peters DATE 17 SEP 64
CHECKED 9/20/64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

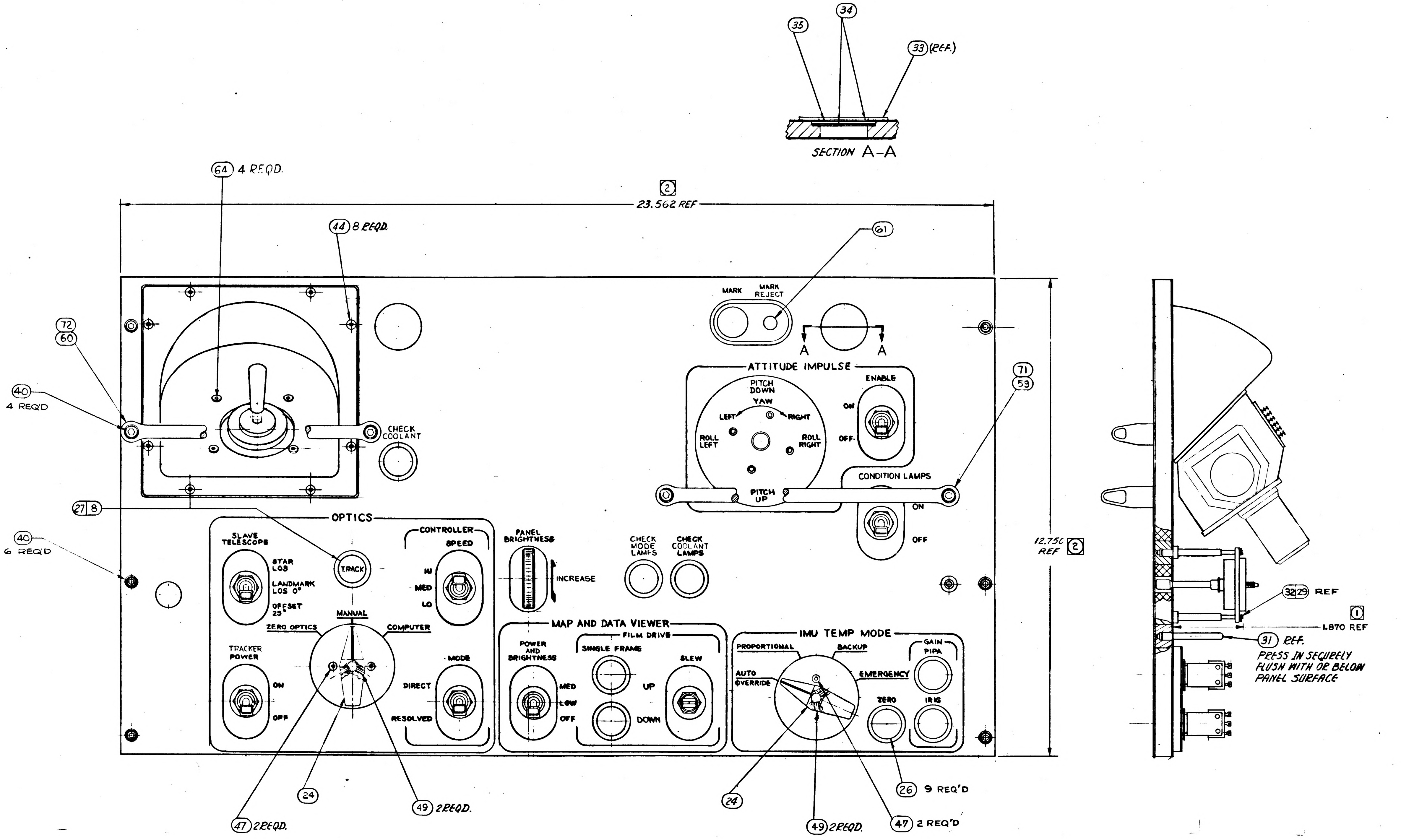
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO.	SIZE	
99974	E	1014664
SCALE —	WEIGHT	SHEET 1 OF 3

E 1014664

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		THIS SHEET ADDED PER TDRR 17726		23 MAR 65	
B		REVISED PER TDRR 17729		25 MAR 65	
C		REVISED PER TDRR 20360		26 JUN 65	REW
D		REVISION STATUS CHANGED		20 AUG 65	
E		REVISED PER TDRR 26162		21 FEB 66	



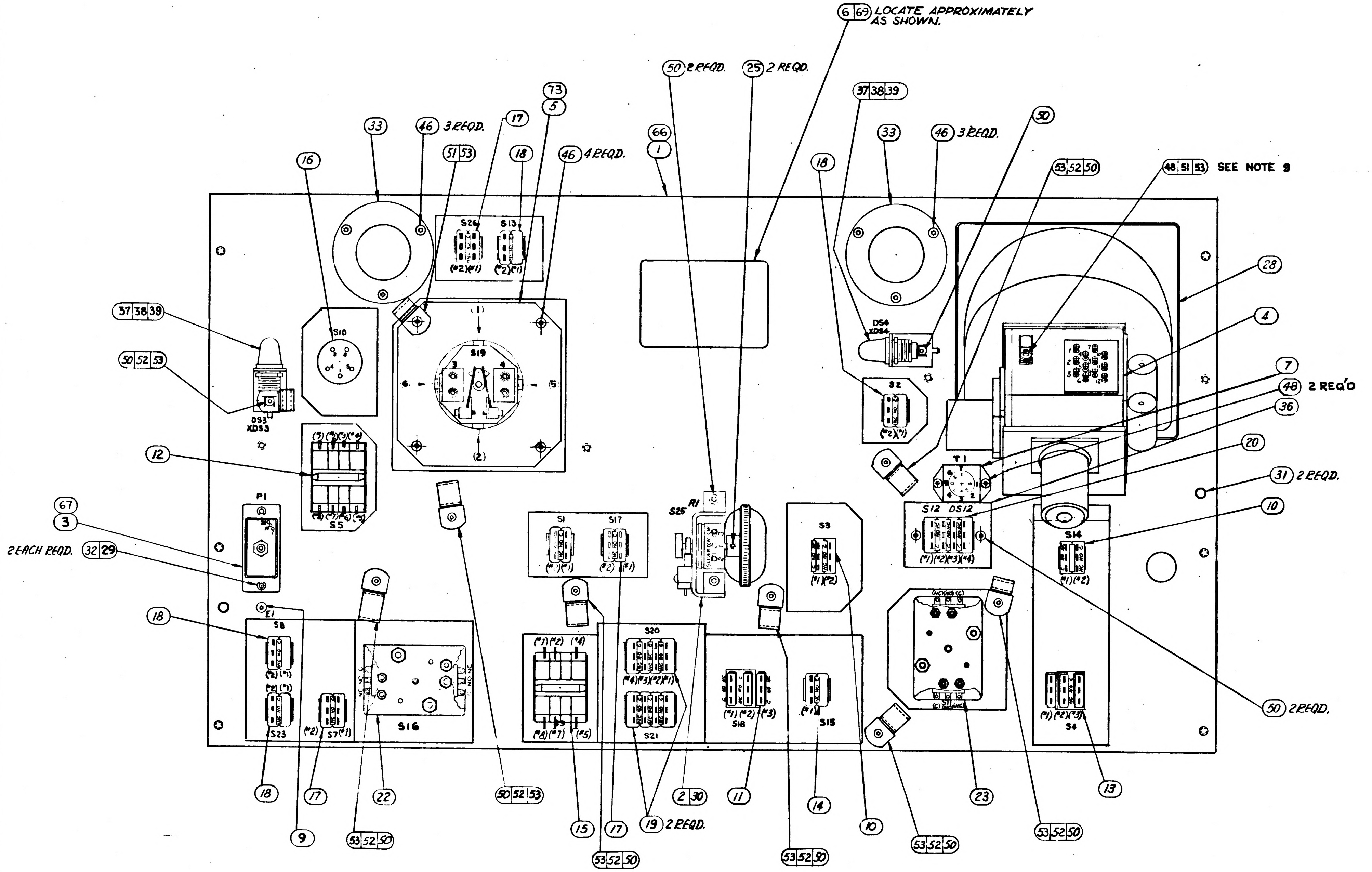
35
34
33 (REF.)
SECTION A-A
64 4 REQD.
44 8 REQD.
2
23.562 REF
61
72
60
40 4 REQ'D
CHECK COOLANT
MARK
MARK REJECT
A
A
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
CONDITION LAMPS
ON
OFF
71
59
27 8
40 6 REQ'D
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
ZERO OPTICS
MANUAL
COMPUTER
TRACKER POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK COOLANT LAMPS
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
MED
LOW
OFF
SINGLE FRAME
UP
DOWN
SLEW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIG
12.750 REF 2
32 29 REF
1
1.870 REF
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE
24
47 2 REQD.
49 2 REQD.
24
49 2 REQD.
26 9 REQ'D
47 2 REQ'D

Ⓐ THIS SHEET ADDED

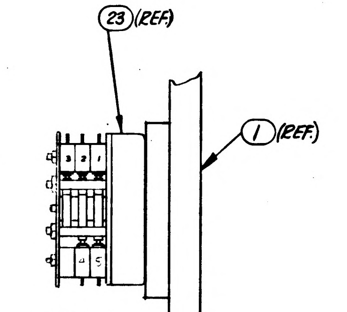
NEXT ASSY	USED ON	APPLICABLE DASH NO.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
APPLICATION			DO NOT SCALE THIS DRAWING	DRAWN DATE CHECKED 9/26/64 APPROVAL 9/26/64 APPROVAL	G & N INDICATOR CONTROL PANEL ASSEMBLY	
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			MATERIAL	NASA APPROVAL	CODE IDENT NO. 99974	SIZE E 1014664
			CONTRACT NAS 9-497	MIT APPROVAL	SCALE —	SHEET 2 OF 3

E
1014664

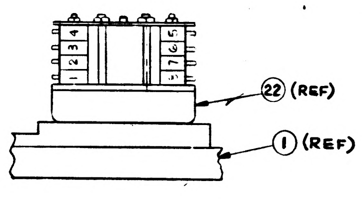
REVISIONS TDRR 17726					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		THIS SHEET ADDED PER TDRR 17726		23 MAR 65	
B		REVISED PER TDRR 17729		25 MAR 65	
C		REVISED PER TDRR 20560		26 JUN 65	
D		REVISION STATUS CHANGED		20 AUG 65	
E		REVISED PER TDRR 26162		21 FEB 66	BP



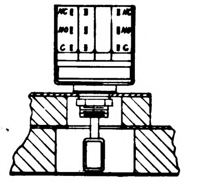
(6)(69) LOCATE APPROXIMATELY AS SHOWN.
(50) 2 REQD.
(25) 2 REQD.
(37)(38)(39)
(33)
(46) 3 REQD.
(50)
(53)(52)(50)
(48)(51)(53) SEE NOTE 9
(16)
(17)
(73)
(5)
(51)(53)
(18)
(46) 4 REQD.
(66)
(1)
(28)
(4)
(7)
(48) 2 REQ'D
(36)
(20)
(31) 2 REQD.
(10)
(50) 2 REQD.
(12)
(67)
(3)
2 EACH REQD. (32)(29)
S26
S13
(#2)(#1)
(#2)(#1)
S10
S19
DS3
XDS3
DS4
XDS4
S2
T1
S12 DS12
(#1)(#2)(#3)(#4)
S14
(#1)(#2)
S5
P1
E1
S8
S23
S7
(#2)(#1)
S16
S1
S17
S25
R1
S3
(#1)(#2)
S20
(#4)(#3)(#2)(#1)
S21
(#1)(#2)(#4)
(#8)(#7)(#5)
S18
(#1)(#2)(#3)
S15
S11
(NC)(NO)(C)
S4
(#1)(#2)(#3)
(18)
(17)
(22)
(9)
(53)(52)(50)
(50)(52)(53)
(15)
(17)
(19) 2 REQD.
(53)(52)(50)
(2)(30)
(11)
(14)
(53)(52)(50)
(10)
(53)(52)(50)
(23)
(53)(52)(50)
(13)



SIDE VIEW S11



BOTTOM VIEW S16


BOTTOM VIEW S9

Ⓐ THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN P. Calda DATE 7/15/64
CHECKED Ey Duvane 7/26/64
APPROVAL 7/26/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.	SIZE	
99974	E	1014664
SCALE		SHEET 3 OF 3

1014664 E

REVISIONS 13325					
SYM	ZONE	DESCRIPTION	CHG NO	DAT	APPD
A		REVISED PER TDRR 17720		5 MAR 65	KF
B		REVISED PER TDRR 17729		25 MAR 65	WD
C		REVISED PER TDRR 20360		2 JUN 65	REW
D		REVISED PER TDRR 21641		20 AUG 65	RP
E		REVISED PER TDRR 26162		21 FEB 66	RP
F		REVISED PER TDRR 26526		15 MAR 66	RP

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014664.
3. SERIALIZE PER ND 1002023
4. SOLDER PER ND1002071 USING ITEMS (41) AND (42)
5. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING
6. (1) DIMENSION CONTROLLED BY ICD MH01-01006-116.
7. (2) DIMENSION CONTROLLED BY ICD MH01-01004-116.
8. MOISTURE PROOFING:
   a. THE PANEL ASSEMBLY, WITHOUT THE SEXTANT HAND CONTROLLER ASSY, ITEM (4), SHALL HAVE ALL SOLDERED ELECTRICAL COMPONENT CONNECTIONS ENCAPSULATED TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236.
   b. UPON COMPLETION OF 8a. ASSEMBLE THE SEXTANT HAND CONTROLLER ASSY, ITEM (4), INTO THE PANEL ASSEMBLY AND ENCAPSULATE ALL SOLDERED ELECTRICAL TERMINATIONS ON TB-1 TO A .06 MINIMUM DEPTH USING ITEMS (56) (57) (62) AND (63) PER ND1002236, EXCEPT THE OVEN TEMPERATURE SHALL BE 150° ± 5°F FOR 10 HOURS MINIMUM.
   c. CONDUCTOR INSULATION SHALL EXTEND INTO THE ENCAPSULATION 0.18 ± 0.06 INCHES.
9. SECURE ITEM (48) IN ITEM (4), USING ITEM (58) PER ND1002211. DO NOT REMOVE THE TEMPORARY SCREW AND GASKET MORE THAN 10 MINUTES PRIOR TO INSTALLING ITEM (48).

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			021	011				
			1	—		73	1015048-031	ATTITUDE IMPULSE SWITCH ASSY
			1	—		72	2014764-011	HANDLE ASSY
			1	—		71	2014764-021	HANDLE ASSY
						70		
			1	—		69	1014650-30	NAMEPLATE
			X	—		68	1023070	SCHEMATIC
			1	—		67	1023071	WIRING HARNESS A
			1	—		66	1023072	PANEL, G&N IND. CONT. (INSEP)
			1	—		65	1014591-031	BRACKET & POT ASSY
SEE NOTE 5			4	4		64	1010477-13	SCREW, FLAT HD. SELF LOCK
			AR	AR		63	1012504-2	PRIMER, METAL
			AR	AR		62	1012504-1	PRIMER, METAL
			1	1		61	1023003	CAP PUSHBUTTON
			—	1		60	1023002-001	HANDLE
			—	1		59	1023002-002	HANDLE
			AR	AR		58	MIL-S-22473 GRADE C	SEALING COMPOUND, RETAINING
SEE NOTE 5			AR	AR		57	1012503-2	COMPOUND, POLYURETHANE
SEE NOTE 5			AR	AR		56	1012503-1	COMPOUND, POLYURETHANE
			X	X		55	PS1014664	SPECIFICATION
			—			54	1014662	SCHEMATIC DIAGRAM, ELECT
SEE NOTE 5			10	10		53	1000220-1 THRU 1000220-12	CLAMP, CABLE
			8	8		52	1011918-3	WASHER-CABLE CLAMP
			2	2		51	1011918-1	WASHER-CABLE CLAMP
			13	13		50	1006783-22	SCREW-BUTTON HD.
			4	4		49	NAS1081C06D3L	SCREW-SET, SELF LOCK
			3	3		48	1006783-18	SCREW-BUTTON HD.
			4	4		47	1010630-25	SCREW-FLAT HD.
			10	10		46	1006783-19	SCREW-BUTTON HD.
						45		
SEE NOTE 5			8	8		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			021	011				
						43		
			AR	AR		42	QQ-S-571 SN60WRAP2	SOLDER
			AR	AR		41	MIL-F-14256	FLUX (ES-2798)
			—	10		40	1014503	SCREW-CAPTIVE
SEE NOTE 5			2	2		39	1010268-2	LAMP-INCANDESCENT
SEE NOTE 5			2	2		38	1010625-1	HOLDER, LAMP
			2	2		37	1014595	BRACKET, MOUNTING-LAMP
			1	1		36	1014594	PLATE, MOUNTING SWITCH
			2	2		35	1014587	WINDOW
			4	4		34	1014584	GASKET, WINDOW
			2	2		33	1014583	CLAMP, WINDOW
			2	2		32	1014530	PIN-CONNECTOR
			2	2		31	1014528	PIN-PANEL
			1	1		30	1014588	WHEEL, POTENTIOMETER
			2	2		29	MS-16633-4009	RING-RETAINING
			1	1		28	1014586	SUPPORT, HAND CONTROLLER
			1	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
SEE NOTE 5			9	9		26	1010475-1	CAP, PUSHBUTTON
			2	2		25	NAS1081C04D3L	SCREW, SET, SELF LOCK
			2	2		24	1014585-003	KNOB, ROTARY SWITCH
SEE NOTE 5			1	1		23	1010906-4	SWITCH ASSY, ROTARY
			1	1		22	1010906-2	SWITCH ASSY, ROTARY
						21		
			1	1		20	1010907-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
			2	2		19	1010904-3	SWITCH ASSY, PUSH BUTTON
			4	4		18	1010904-2	SWITCH ASSY, PUSH BUTTON
			4	4		17	1010904-1	SWITCH ASSY, PUSH BUTTON
			1	1		16	1010489-1	SWITCH ASSY, TOGGLE
			1	1		15	1010903-2	SWITCH ASSY, TOGGLE
			1	1		14	1010905-2	SWITCH ASSY, TOGGLE
			1	1		13	1010905-1	SWITCH ASSY, TOGGLE
			1	1		12	1010903-1	SWITCH ASSY, TOGGLE
			1	1		11	1010902-2	SWITCH ASSY, TOGGLE
			2	2		10	1010902-1	SWITCH ASSY, TOGGLE
			1	1		9	1006783-21	SCREW, BUTTON HD
			1	1		8	1010624-2	LAMP, INCANDESENT
SEE NOTE 5			1	1		7	1010492	TRANSFORMER, POWER
			—	1		6	1014650-12	NAME PLATE
			—	1		5	1015048-011	ATTITUDE IMPULSE SWITCH ASSY.
			1	1		4	1021700-021	SEXTANT HAND CONTROLLER ASSY.
			—	1		3	1014665	HARNESS
			—	1		2	1014591-021	BRACKET & POT. ASSEMBLY
			—	1		1	1014663	PANEL, G&N IND. CONT. (INSEP.)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

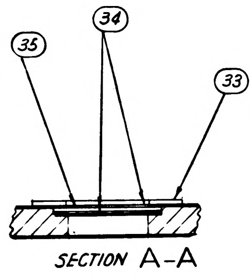
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN DATE
CHECKED 9/26/64
APPROVAL 9/26/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

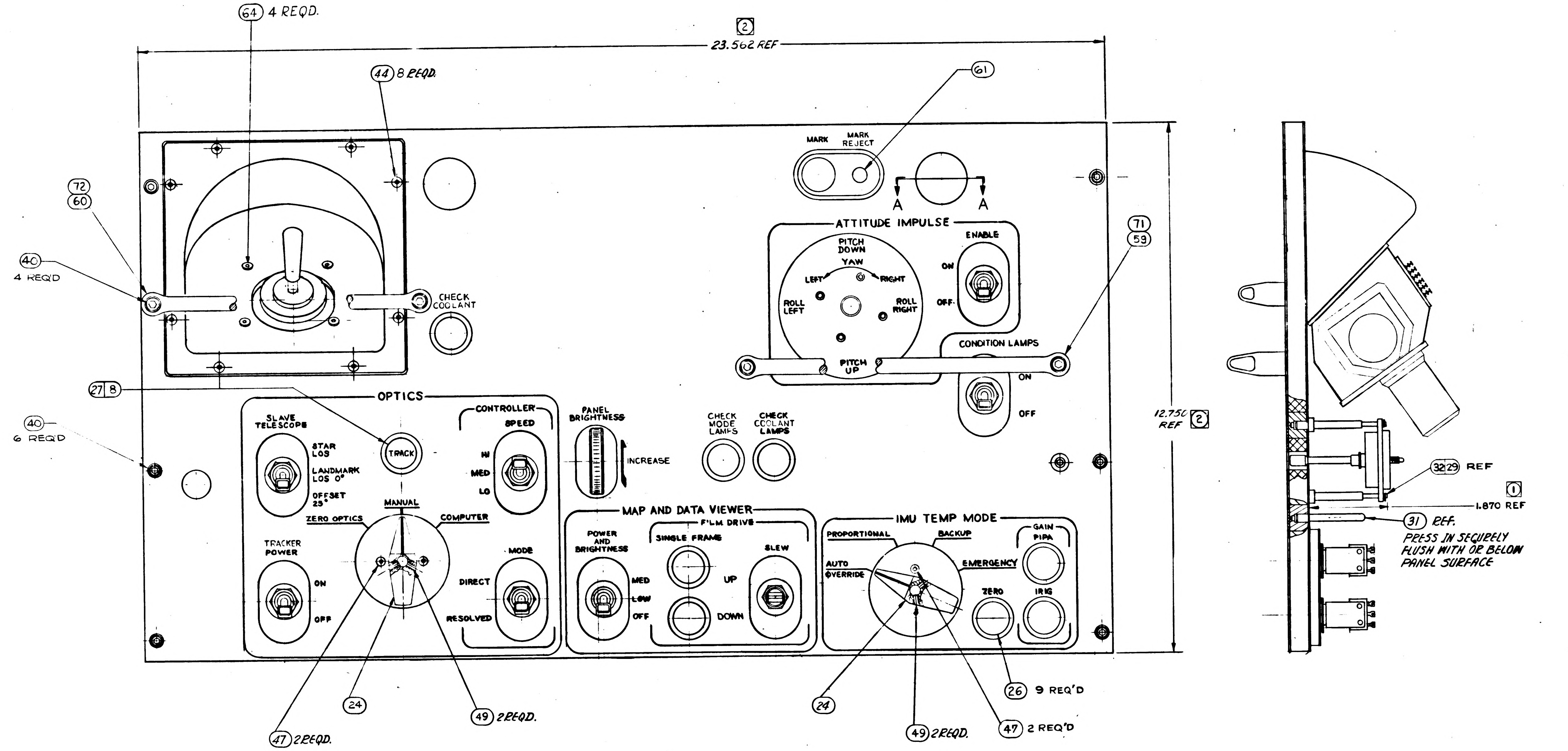
G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. 80230
SIZE E
1014664
SCALE —
WEIGHT
SHEET 1 OF 3

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		THIS SHEET ADDED PER TDRR 17726		23 MAR 65	
B		REVISED PER TDRR 17729		25 MAR 65	
C		REVISED PER TDRR 20360		20 JUN 65	
D		REVISION STATUS CHANGED		20 AUG 65	
E		REVISED PER TDRR 26162		21 FEB 66	
F		REVISION STATUS CHANGED		15 MAR 66	



SECTION A-A


64 4 REQD.
44 8 REQD.
2
23.562 REF
61
72
60
40
4 REQ'D
CHECK COOLANT
MARK
MARK REJECT
A
A
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
71
59
CONDITION LAMPS
ON
OFF
27 8
40
6 REQ'D
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
ZERO OPTICS
MANUAL
COMPUTER
TRACKER POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK COOLANT LAMPS
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
MED
LOW
OFF
FILM DRIVE
SINGLE FRAME
UP
DOWN
SLEW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIG
12.750 REF 2
32 29 REF
1
1.870 REF
31 REF.
24
47 2REQD.
49 2REQD.
24
49 2REQD.
47 2 REQ'D
26 9 REQ'D

PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE

Ⓐ THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN R. Colla DATE 12/15/64
CHECKED 9/26/64
APPROVAL 9/26/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
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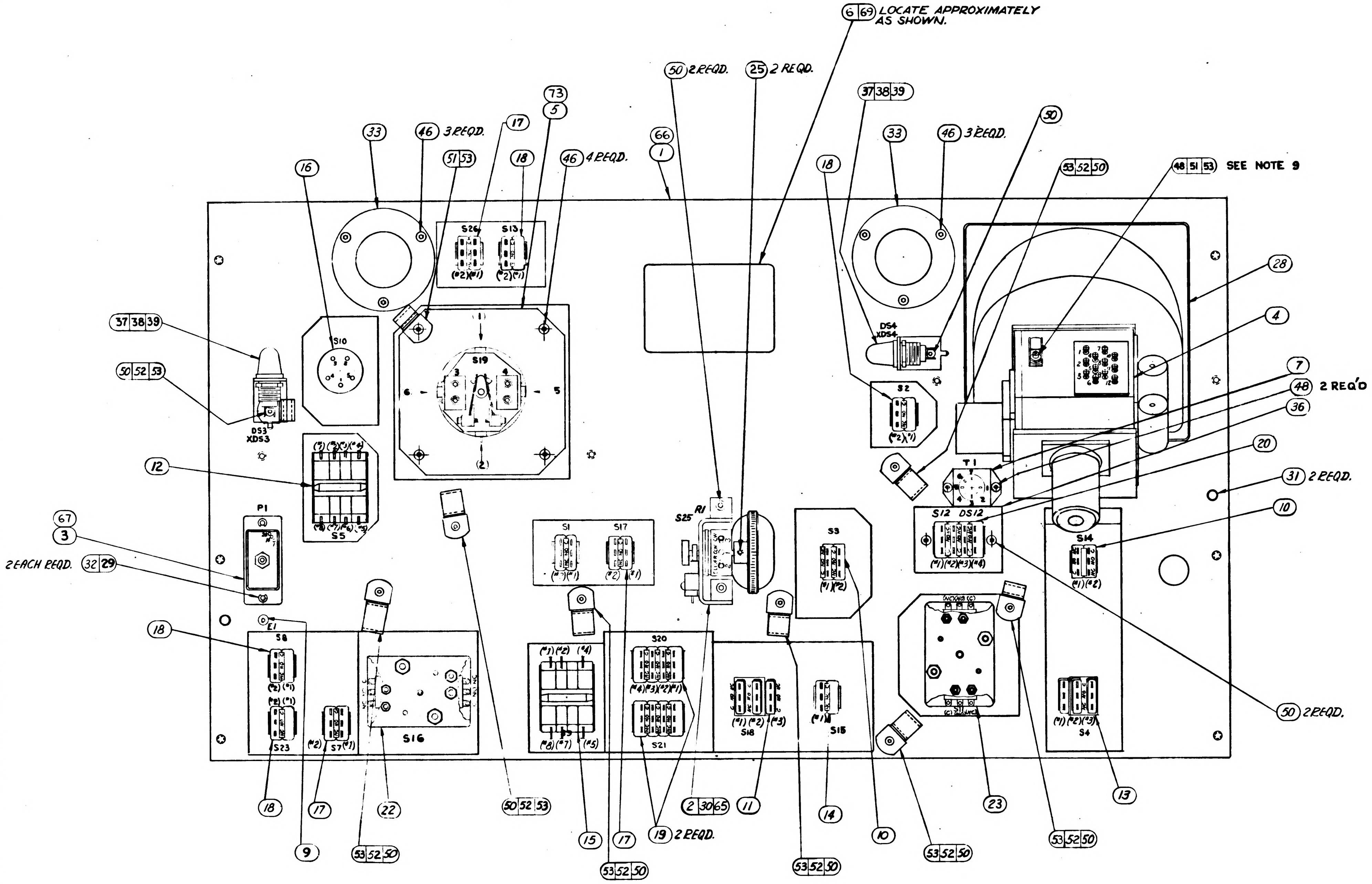
HOUSTON, TEXAS

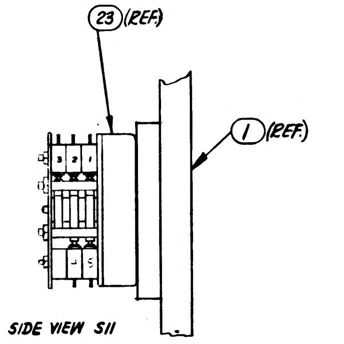
G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO.	SIZE	
80230	E	1014664
SCALE —		SHEET 2 OF 3

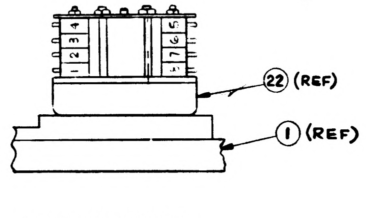
1014664

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		THIS SHEET ADDED PER TDRR 17726		MAR 65	
B		REVISED PER TDRR 17729		25 MAR 65	
C		REVISED PER TDRR 20360			
D		REVISION STATUS CHANGED		20 AUG 65	
E		REVISED PER TDRR 26162		21 FEB 66	
F		REVISED PER TDRR 26526		15 MAR 66	

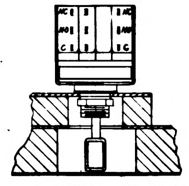

6 69 LOCATE APPROXIMATELY AS SHOWN.
50 2 REQD.
25 2 REQD.
37 38 39
33
46 3 REQD.
50
53 52 50
48 51 53 SEE NOTE 9
16
33
46 3 REQD.
51 53
17
18
73
5
46 4 REQD.
66
1
18
28
4
7
48 2 REQ'D
36
20
31 2 REQD.
10
37 38 39
50 52 53
DS3 XDS3
S10
S19
S26
S13
DS4 XDS4
S2
T1
S12 DS12
S14
12
S5
P1
67
3
2 EACH REQD. 32 29
E1
18
S8
S23
S7
S16
S1
S17
S25
R1
S3
S20
S21
S18
S15
S4
50 2 REQD.
18
17
22
9
53 52 50
50 52 53
15
17
53 52 50
19 2 REQD.
2 30 65
11
14
10
53 52 50
53 52 50
23
53 52 50
13



SIDE VIEW S11



BOTTOM VIEW S16



BOTTOM VIEW S9

Ⓐ THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN R. Patea DATE 17 SEP 64
CHECKED 9/26/64
APPROVAL 9/25/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

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HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. 80230
SIZE E
1014664
SCALE —
SHEET 3 OF 3

1014664 F

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSPECT PER PS 1014664.
3. SERIALIZE PER ND 1002023
4. SOLDER PER ND1002071 USING ITEMS ㊶ AND ㊷
5. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.
6. $\boxed{1}$ DIMENSION CONTROLLED BY ICD MH01-01006-116.
7. $\boxed{2}$ DIMENSION CONTROLLED BY ICD MH01-01004-116.

PICTURE INCOMPLETE

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	X			PS1014664	SPECIFICATION
	X			1014662	SCHEMATIC DIAGRAM, ELECT
SEE NOTE 5	9		53	1000220-1 THRU 1000220-12	CLAMP, CABLE
	6		52	011918-3	WASHER-CABLE CLAMP
	1		51	1011918-1	WASHER-CABLE CLAMP
	13		50	1006783-22	SCREW-BUTTON HD.
	4		49	NAS1081C06D3L	SCREW-SET, SELF LOCK
	2		48	1006783-18	SCREW-BUTTON HD.
	4		47	1010630-25	SCREW-FLAT HD.
	10		46	1006783-19	SCREW-BUTTON HD.
			45		
SEE NOTE 5	12		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	1		43	1015049	WIRE LIST A-A
SEE NOTE 5	AR		42	QQ-S-571 SN60WRAP2	SOLDER
SEE NOTE 5	AR		41	MIL-F-14256	FLUX (ES-2798)
	6		40	1014503	SCREW-CAPTIVE
SEE NOTE 5	2		39	1010268-2	LAMP-INCANDESCENT
SEE NOTE 5	2		38	1010625-1	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		3[illegible]	[illegible]14584	GASKET, WINDOW
	2		3[illegible]	[illegible]14583	CLAMP, WINDOW
	2		3[illegible]	[illegible]30	PIN-CONNECTOR
	2		3[illegible]	10[illegible]8	PIN-PANEL
	1		30	[illegible]38	WHEEL, POTENTIOMETER
SEE NOTE 5	2		29	[illegible]16633-4009	RING-RETAINING
	1		28	[illegible]586	SUPPORT, HAND CONTROLLER
	1		27	10[illegible]651-7	CAP-PUSH BUTTON ILLUMINATED
	10		26	10[illegible]475-1	CAP, PUSHBUTTON
SEE NOTE 5	2		25	NAS1081C04D3L	SCREW, SET, SELF LOCK
	2		24	1014585-003	KNOB, ROTARY SWITCH
SEE NOTE 5	1		23	1010494-4	SWITCH ASSY, ROTARY
	1		22	1010494-2	SWITCH ASSY, ROTARY
			21		
	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
	3		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
	3		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1		14	1010484-2	SWITCH ASSY, TOGGLE
	1		13	1010484-1	SWITCH ASSY, TOGGLE
			12		
	1		11	1010478-2	SWITCH ASSY, TOGGLE
	2		10	1010478-1	SWITCH ASSY, TOGGLE
	1		9	1006783-21	SCREW, BUTTON HD
	1		8	1010624-2	LAMP, INCANDESENT
SEE NOTE 5	1		7	1010492	TRANSFORMER, POWER
	1		6	1014650-12	NAME PLATE
	1		5	1013048-011	ATTITUDE IMPULSE SWITCH ASSY.
	1		4		SEXTANT HAND CONTROLLER ASSY.
	1		3	1014665	HARNESS
	1		2	1014591-021	BRACKET & POT. ASSEMBLY
	1		1	1014663	PANEL, G&N IND. CONT. (INSEP.)

LIST OF PARTS AND MATERIALS

1014664

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1015023-021	1015023-021	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 9/26/64
APPROVAL [illegible] 9/26/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. SIZE E 1014664
SCALE — WEIGHT SHEET 1 OF 1

APOLLO G&N Specification
PS1014664
Original Issue Date: 2-24-65
Release Authority: TDRR 16795
Class A **Release**

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page 1 to 11 inclusive.

APPROVALS	2/24/65 **NASA/MSC**	2/20/65 2/24/65 **MIT/IL**	2-5-65 **ACSP**

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014664, hereafter called the assembly.

1.2 CLASSIFICATION. - Unless otherwise specified, all types shall meet the requirements specified herein. The special requirements for part number 1014664-011 shall be designated as Type I.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND1002214	General Specification for Packaging AGE.
ND1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM1014664	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014664	G&N Indicator Control Panel Assembly
1014662	G&N Indicator Control Panel (Schematic) (For Reference Only)

3. REQUIREMENTS

3.1 GENERAL SPECIFICATION. Unless otherwise specified herein, all of the requirements of Specification ND-1002210 shall apply as requirements for this specification.

3.2 DESCRIPTION. The assembly shall contain the Sextant Hand Controller Assembly, the Attitude Impulse Switch Assembly, the IMU temperature mode controls, the Map and Data Viewer controls, the Power and Film position controls, and the panel brightness control.

3.3 FUNCTIONAL REQUIREMENTS

3.3.1 Electrical Inputs. The assembly shall perform as specified herein with the following electrical inputs:

a. 24 vdc max
b. 5.50±0.25V rms, 400±20 cps
c. 28.00±0.28V rms, 760±40 cps

3.3.2 Continuity and DC Resistance. The continuity and dc resistance of the assembly shall be as specified in Table I and 3.3.2.1 through 3.3.2.7, using Method 303 of Standard MIL-STD-202 (Reference Drawing 1014662).

TABLE I

CONTINUITY AND DC RESISTANCE

PINS		RESISTANCE (ohms)
FROM	TO	
40	50	220 to 265
69	80	110 max
91	Chassis*	0.02 max

* Connect to back skin, but not to mounting pads.

3.3.2.1 Optics Group and Sextant Hand Controller. With either 28.00±0.28V rms, 720 cps±1% or 28.00±0.28V rms, 800 cps ±1% applied between pins 80 (Hi) and 69 (Lo); 5.50±0.25V rms, 400±20 cps applied between pins 54 (Hi) and 52 (Lo); and the sextant hand controller and the optics switches in the positions specified in Table II, the outputs and continuity shall be as specified in Table II.

3.3.2.2 Map and Data Viewer Switch Continuity. With no power applied and the map and data viewer switches set in the positions specified in Table III, the continuity through these switches shall be as specified in Table III.

TABLE II

OPTICS GROUP AND SEXTANT HAND CONTROLLER OUTPUT AND CONTINUITY

	SEXTANT HAND CONTROLLER POSITIONS	OPTICS GROUP SWITCH POSITIONS						OUTPUT				CONTINUITY		
		SPEED CONTROLLER	MODE CONTROLLER	OPTICS MODE	TRACK	TRACKER POWER	SLAVE TELESCOPE	FROM PIN (HI)	TO PIN (LO)	VOLTAGE (RMS)	PHASE ±10°	FROM PIN	TO PIN	RESISTANCE OHMS
A	EXTREME (+) TRUNNION	"HI"	OPTIONAL	OPTIONAL	NOT ILLUM.	OPTIONAL	OPTIONAL	8	22	9 to 12	*	-	-	-
B	EXTREME (-) TRUNNION							8	22	9 to 12	O	-	-	-
C	EXTREME (+) SHAFT							10	24	9 to 12	*	-	-	-
D	EXTREME (-) SHAFT							10	24	9 to 12	*	-	-	-
E	NORMAL							8	22	0.200 max	OPTIONAL	-	-	-
F	NORMAL				NOT ILLUM.			10	24	0.200 max	OPTIONAL	-	-	-
G	EXTREME (+) TRUNNION	"HI"			ILLUMINATED			34	35	9 to 12	O	-	-	-
H	EXTREME (+) TRUNNION	"MEDIUM"			NOT ILLUM.			8	22	1.05 to 1.45	*	-	-	-
I	EXTREME (+) SHAFT	"MEDIUM"						10	24	1.05 to 1.45	*	-	-	-
J	EXTREME (+) TRUNNION	"LO"						8	22	0.104 to 0.146	*	-	-	-
K	EXTREME (+) SHAFT	"LO"	OPTIONAL		NOT ILLUM.			10	24	0.104 to 0.146	*	34	35	1.0 max
L	OPTIONAL	OPTIONAL	"DIRECT"		OPTIONAL			-	-	———	-	1	82	100 meg min
M			"RESOLVED"	OPTIONAL	OPTIONAL			-	-	———	-	1	82	1.0 max
N			OPTIONAL	"MANUAL"	NOT ILLUM.			-	-	———	-	1	2	100 meg min
O					ILLUMINATED			-	-	———	-	1	2	1.4 max
P					OPTIONAL			-	-	———	-	1	72	100 meg min
Q								-	-	———	-	1	70	
R								-	-	———	-	47	48	
S								-	-	———	-	47	49	
T				"MANUAL"				-	-	———	-	71	108	100 meg min
U				"ZERO OPTICS"				-	-	———	-	1	72	1.0 max
V								-	-	———	-	47	48	1.0 max
W					OPTIONAL			-	-	———	-	1	70	100 meg min
X					ILLUMINATED			-	-	———	-	1	2	1.4 max
Y					OPTIONAL			-	-	———	-	47	49	100 meg min
Z				"ZERO OPTICS"				-	-	———	-	71	108	
AA				"COMPUTER"				-	-	———	-	1	72	
AB								-	-	———	-	47	48	100 meg min
AC					OPTIONAL			-	-	———	-	1	70	1.0 max
AD					ILLUMINATED			-	-	———	-	1	2	100 meg min
AE					OPTIONAL			-	-	———	-	47	49	1.0 max
AF				"COMPUTER"		OPTIONAL		-	-	———	-	71	108	1.0 max
AG				OPTIONAL		"OFF"		-	-	———	-	71	96	100 meg min
AH						"OFF"		-	-	———	-	47	42	100 meg min
AI						"OFF"		-	-	———	-	80	45	100 meg min
AJ						"ON"		-	-	———	-	71	96	1.0 max
AK						"ON"		-	-	———	-	47	42	1.0 max
AL						"ON"	OPTIONAL	-	-	———	-	80	45	1.0 max
AM						OPTIONAL	"OFFSET 25° "	-	-	———	-	1	59	1.4 max
AN							"OFFSET 25° "	-	-	———	-	1	58	100 meg min
AO							"LDMK LOS"	-	-	———	-	1	58	1.0 max
AP							"LDMK LOS"	-	-	———	-	1	59	100 meg min
AQ							"STAR LOS"	-	-	———	-	1	59	100 meg min
AR	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	"STAR LOS"	-	-	———	-	1	58	100 meg min

TABLE III

MAP AND DATA VIEWER GROUP SWITCH CONTINUITY

SWITCHES AND POSITIONS				CONTINUITY		
POWER AND BRIGHTNESS	SINGLE FRAME U	SINGLE FRAME D	SLEW	From Pin	To Pin	Resistance (ohms)
"OFF"	"OUT"	"OUT"	"CENTER"	51	67	100 meg min
"OFF"	"IN"	"IN"	"UP"	51	67	↕
"OFF"	"IN"	"IN"	"DOWN"	51	67	↕
"OFF"	Optional	Optional	Optional	53	46	↕
"OFF"	Optional	Optional	Optional	53	55	100 meg min
"LOW"	"OUT"	"OUT"	"UP"	51	67	1.4 max
↕	↕	"OUT"	"CENTER"	51	67	100 meg min
↕	↕	"OUT"	"DOWN"	51	67	1.4 max
↕	"OUT"	"IN"	"CENTER"	51	67	1.4 max
↕	"IN"	"OUT"	"CENTER"	51	67	1.4 max
"LOW"	Optional	Optional	Optional	53	46	1.4 max
"LOW"	Optional	Optional	Optional	53	55	100 meg min
"MED"	"OUT"	"OUT"	"CENTER"	51	67	100 meg min
↕	↕	"OUT"	"UP"	51	67	1.4 max
↕	↕	"OUT"	"DOWN"	51	67	1.4 max
↕	"OUT"	"IN"	"CENTER"	51	67	1.4 max
↕	"IN"	"OUT"	"CENTER"	51	67	1.4 max
↕	Optional	Optional	Optional	53	46	100 meg min
"MED"	Optional	↕	↕	53	55	1.4 max
Optional	"OUT"	↕	↕	78	51	100 meg min
Optional	"OUT"	↕	↕	78	106	1.0 max
Optional	"IN"	↕	↕	78	106	100 meg min
"LOW"or "MED"	"IN"	Optional	↕	78	51	1.4 max
Optional	Optional	"OUT"	↕	79	51	100 meg min
Optional	Optional	"OUT"	↕	79	93	1.0 max
Optional	Optional	"IN"	↕	79	93	100 meg min
"LOW"or "MED"	Optional	"IN"	Optional	79	51	1.4 max
Optional	"OUT"	"OUT"	"CENTER"	95	81	100 meg min
↕	"IN"	"OUT"	"CENTER"	95	81	1.0 max
↕	"OUT"	"IN"	"CENTER"	95	81	1.0 max
↕	"OUT"	"OUT"	"UP"	95	81	1.0 max
↕	"OUT"	"OUT"	"DOWN"	95	81	1.0 max
↕	"OUT"	"OUT"	Optional	95	68	100 meg min
↕	"IN"	"OUT"	Optional	95	68	1.0 max
↕	"OUT"	"IN"	Optional	95	68	1.0 max
↕	Optional	Optional	"CENTER"	77	66	100 meg min
↕	↕	↕	"CENTER"	65	66	100 meg min
↕	↕	↕	"UP"	77	66	1.0 max
↕	↕	↕	"UP"	65	66	100 meg min
Optional	↕	↕	"DOWN"	77	66	100 meg min
	Optional	Optional	"DOWN"	65	66	1.0 max

3.3.2.3 IMU Temperature Mode Switch Continuity. With no power applied and the ZERO, GAIN IRIG, and the GAIN PIPA switches set to the positions specified in Table IV, the continuity through these switches shall be as specified in Table IV. The continuity through the IMU TEMPERATURE MODE switch shall be as specified in Table V.

TABLE IV

IMU TEMPERATURE MODE GROUP CONTINUITY

SWITCHES			CONTINUITY		
ZERO	GAIN IRIG	GAIN PIPA	From Pin	To Pin	Resistance (ohms)
"OUT"	"OUT"	"OUT"	98	97	0.7 max
↕	↕	↕	98	104	100 meg min
			98	103	100 meg min
			85	86	0.7 max
			85	89	100 meg min
"OUT"			85	102	100 meg min
"IN"			98	97	100 meg min
↕			98	104	0.5 max
			98	103	100 meg min
			85	86	100 meg min
			85	89	0.5 max
"IN"	"OUT"	"OUT"	85	102	100 meg min
"OUT"	"IN"	Optional	85	102	0.7 max
"OUT"	Optional	"IN"	98	103	0.7 max

TABLE V

IMU MODE SWITCH CONTINUITY

PINS		CONTINUITY FOR SWITCH POSITION (ohms)			
From	To	AUTO OVERRIDE	PROPORTIONAL	BACK UP	EMERGENCY
92	74	100 meg min	100 meg min	100 meg min	0.5 max
92	105	0.5 max	0.5 max	100 meg min	100 meg min
88	75	0.5 max	0.5 max	100 meg min	100 meg min
90	76	0.5 max	100 meg min	100 meg min	100 meg min
90	94	100 meg min	100 meg min	100 meg min	0.5 max
100	101	0.5 max	100 meg min	100 meg min	100 meg min
100	87	100 meg min	0.5 max	100 meg min	100 meg min
100	88	100 meg min	100 meg min	0.5 max	100 meg min

3.3.2.4 Attitude Impulse Group. The resistance of the attitude impulse group shall be as follows:

a. With the ENABLE switch set at "OFF", the resistance between pins 41 and 50 shall be no less than 100 megohms.

b. With 24 vdc max applied between pins 50 (Hi) and 40 (Lo), and the ENABLE switch set on "ON", the same voltage ±0.5 vdc as applied shall exist between pins 41 (Hi) and 40 (Lo).

c. With 24 vdc max applied between pins 50 (Hi) and 40 (Lo), and the ENABLE switch set at "ON", removal of the voltage applied between pins 50 and 40 shall cause the switch to return to "OFF".

d. With no power applied and the ATTITUDE IMPULSE CONTROLLER in the positions specified in Table VI, the continuity through the ATTITUDE IMPULSE CONTROLLER shall be as specified in Table VI.

TABLE VI

ATTITUDE IMPULSE CONTROLLER CONTINUITY

PINS		CONTINUITY FOR POSITION (ohms)						
From	To	RIGHT ROLL	LEFT ROLL	UP PITCH	DOWN PITCH	RIGHT YAW	LEFT YAW	NORMAL
		Max	Max	Max	Max	Max	Max	
16	17	100 meg min	1.0	100 meg min	100 meg min	100 meg min	100 meg min	100 meg min
16	3	1.0	100 meg min	100 meg min	100 meg min	100 meg min ↕	↕	↕
18	5	100 meg min	↕	100 meg min	1.0	1.0		
18	4	↕		1.0	100 meg min		100 meg min	
7	6			100 meg min	100 meg min	100 meg min	1.0	
7	20	100 meg min	100 meg min	100 meg min	100 meg min	1.0	100 meg min	100 meg min

PINS		CONTINUITY FOR POSITION (ohms)			
From	To	Down Pitch-Left Roll	Down Pitch-Right Roll	Up Pitch-Left Roll	Up Pitch-Right Roll
		Max	Max	Max	Max
16	17	1.0	100 meg min	1.0	100 meg min
16	3	100 meg min	1.0	100 meg min	1.0
18	5	1.0	1.0	100 meg min	100 meg min
18	4	100 meg min	100 meg min	1.0	1.0
7	6	100 meg min	100 meg min	100 meg min	100 meg min
7	20	100 meg min	100 meg min	100 meg min	100 meg min

3.3.2.5 Panel Brightness Control. The PANEL BRIGHTNESS control shall operate as follows:

a. With PANEL BRIGHTNESS control set in the extreme "DECREASE" position and the switches actuated into their open position; the resistance between pins P1-32 and P1-26 shall be no less than 100 megohms, and the resistance between pins P1-44 and P1-32 shall be 1.0 ohm max.

b. With the PANEL BRIGHTNESS control rotated in the "INCREASE" direction to the point at which the switches are just actuated into their closed position: (approx. one-tenth of full rotation) the resistance between pins P1-32 and P1-26 shall be less than 1.0 ohm and the resistance of the potentiometer existing between pins P1-44 and P1-32 shall be 1.0 ohm max.

Line

c. With the PANEL BRIGHTNESS control rotated to the extreme "INCREASE" position: the resistance between pins P1-32 and P1-26 shall be less than 1.0 ohms and the potentiometer resistance existing between pins P1-44 and P1-32 shall be 1.5±0.15 ohms. The resistance of the potentiometer shall increase without interruption as the control is rotated to the extreme "INCREASE" position.

3.3.2.6 Condition Lamps. With no power applied and the CHECK CONDITION LAMPS switch S1 and CONDITION LAMPS switch S5 in the positions specified in Table VII, the continuity through the switches shall be as specified in Table VII.

TABLE VII

CONDITION LAMPS CONTINUITY

PINS		SWITCH POSITIONS		CONTINUITY
FROM	TO	CHECK CONDITION LAMPS-S1	CONDITION LAMPS-S5	RESISTANCE (ohms)
51	73	OUT	OPTIONAL	100 Meg Min
14	15	OUT	↕	100 Meg Min
51	73	IN	↕	1.0 Max
14	15	IN	OPTIONAL	1.0 Max
26	38	OPTIONAL	"OFF"	100 Meg Min
26	39	↕	↕	↕
26	62	↕	↕	↕
26	99	↕	↕	↕
26	107	↕	"OFF"	100 Meg Min
26	38	↕	"ON"	1.0 Max
26	39	↕	↕	↕
26	62	↕	↕	↕
26	99	↕	↕	↕
26	107	OPTIONAL	"ON"	1.0 Max

3.3.2.7 Mark Button. The MARK button operation shall be as follows:

a. With the MARK button not depressed, the resistance between pins 1 and 31 shall be greater than 100 megohms.

b. With the MARK button depressed, the resistance between pins 1 and 31 shall be 1.0 ohm max.

3.3.2.8 Mark Reject Button. The MARK REJECT button operation shall be as follows:

a. With the MARK REJECT button not depressed, the resistance between pins 47 and 30 shall be 1.0 ohms max, the resistance between pins 47 and 33 and between pins 43 and 60 shall be greater than 100 megohms.

b. With the MARK REJECT button depressed, the resistance between pins 47 and 30 shall be greater than 100 megohms, and the resistance between pins 47 and 33 and between pins 43 and 60 shall be 1.0 ohms max.

3.3.3 Insulation Resistance. The insulation resistance from pins 83 and 91 to all other pins shall be no less than 100 megohms when tested in accordance with Method 302 of Standard MIL-STD-202, with 150 to 200 vdc applied.

3.3.4 Lamp Operation. With 5.50±0.25V rms, 400±20 cps applied between pins 61 (Hi) and 52 (Lo):

a. The check coolant lamps shall illuminate when the CHECK COOLANT button is depressed and the intensity of illumination shall be 100.0 foot-lamberts minimum at the filament of the lamps.

b. The TRACK button, in the normal (not depressed) position, shall illuminate when the CHECK MODE LAMPS button is depressed.

c. The TRACK button , in the actuated (depressed) position, shall illuminate when the CHECK MODE LAMPS button is depressed and the illumination of the TRACK button shall be 4 foot-lamberts minimum as determined by the average of five 0.015 inch nominal diameter areas equally spaced along the horizontal center line of the push' button face. Only the illuminated surface of the push button which is on a plane parallel to the front surface of the G&N Indicator Control Panel shall be measured.

d. The applied voltage, ±0.5V rms, shall exist between pins 54 (Hi) and 52 (Lo) and between pins 84 (Hi) and 52 (Lo) when the CHECK MODE LAMPS button is depressed.

3.4 PERFORMANCE AND PRODUCT CHARACTERISTICS

3.4.1 Service Life

3.4.1.1 Operating Life. The assembly shall meet performance specifications for at least 2000 hours of operation, excluding the supplier's test time of the complete unit.

3.4.1.2 Shelf Life. The assembly shall have a shelf life of at least 3 years, without operation, at ambient room temperature after final acceptance at the supplier's facility, when packaged in accordance with Specification ND1002214.

3.4.2 Reliability. Design objectives require maximum reliability of the assembly during its period of useful life. Every effort shall be made to design and produce units capable of meeting a maximum failure rate of 30 failures per million hours.

4. QUALITY ASSURANCE PROVISIONS

4.1 GENERAL SPECIFICATION. Unless otherwise specified herein, all the quality assurance provisions of Specification ND-1002210 shall form a part of this specification.

4.2 NASA ACCEPTANCE INSPECTION. The NASA acceptance inspection shall be in accordance with Specification FTM1014664.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. The assembly shall be prepared for delivery in accordance with the requirements of Specification ND1002214.

6. NOTES. None.

Notice: When APOLLO G&N drawings, specifications, or other data are used for any purpose other than in connection with a definitely related NASA procurement operation, NASA thereby incurs no responsibility nor any obligation whatsoever, and the fact that NASA may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

JW/jls

14847

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014664-011	1015023-021	A	REVISED PER TORR 17727	24 MAR 65	JWP

REV																			
SHEET																			
REV STATUS	REV	A	+	+	+	A	A	A	A	A	A	A	A	A	A	A	A	A	A
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN DATE 17 AUG 64
CHECKED 9-25-64
APPROVAL
APPROVAL

NASA APPROVAL
MIT APPROVAL
CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
G & N INDICATOR CONTROL PANEL

CODE IDENT NO.
SIZE A
1014665
REV A

SCALE —
SHEET 1 OF 18

G+N HARNESS

GENERAL NOTES

1 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2 MARK CONDUCTOR IDENTIFICATION PER ND1002019.

3 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

4 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 1.2 INCHES.

5 SPIRALLING OF THE MARKING IS ALLOWED.

6 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

7 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

9 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND1002206

10 SOLDER PER ND 1002071 USING ITEMS 16 AND 17.

11 GRID MODULE IS 1 INCH TRUE POSITION.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665
SCALE-NONE	REV LTR	SHEET 2

G+N HARNESS

GENERAL NOTES

12 UNLESS OTHERWISE SPECIFIED ---
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - .25 INCH.
END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - .12 INCH.

13 LACE HARNESS USING ITEM 20.

14 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
B - TO END SHIELD
K - BLACK
R - RED
Y - YELLOW
G - GREEN

15 FABRICATE HARNESS IN ACCORDANCE WITH ND 1002032

16 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1

17 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATIONS PREFIX WITH 50A1.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665
SCALE-NONE	REV LTR	SHEET 3

G+N HARNESS

GENERAL NOTES

18 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50

19 Pot Rear of Connector (Wire Side) Per ND 1002236

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665
SCALE-NONE	REV LTR	SHEET 4

GWV G+N HARNESS A 1014665

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014665- 1	WIRE PER 1010789-011 YEL JKT 24AWG YEL. 2 FT 11.5 IN TOTAL LENGTH
	2	1	1014665- 2	WIRE PER 1010789-012 YEL JKT 24AWG YEL, RED. 4 FT 3.5 IN TOTAL LENGTH
	3	1	1014665- 3	WIRE PER 1010789-004 24AWG YEL, RED, GRN. 4 FT 7 IN TOTAL LENGTH
	4	1	1014665- 4	WIRE PER 1010789-001 24AWG YEL. 127 FT 7.5 IN TOTAL LENGTH
	5	1	1014665- 5	WIRE PER 1010789-006 22AWG YEL. 1 FT 0.5 IN TOTAL LENGTH
	6	1	1014665- 6	WIRE PER 1010789-003 24AWG YEL, RED. 13 FT 1 IN TOTAL LENGTH
	7	1	1014665- 7	WIRE PER 1010789-002 24AWG BLK. 2 FT 6 IN TOTAL LENGTH
	9	6	1010490-168	INSULATION SLEEVING HEAT SHRINK
	10	2	1010402- 1	SOLDER SLEEVE
	11	4	1010402- 2	SOLDER SLEEVE
	12	4	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010490-112	INSULATION SLEEVING HEAT SHRINK (WHITE)
	14	108	1010738- 5	CONTACT ELECTRICAL
	15	1	1010825- 4	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER (ES-2175 ALLOY 1) SN60 WRAP2

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665
SCALE-NONE	REV LTR A	SHEET 5 OF 18

GWV G+N HARNESS A 1014665

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO ~~SHLD WRAPS~~	DESCRIPTION
	17	AR	MIL-F-14256	FLUX (ES-2798)
	18	1	1010638- 6	TERMINAL
	19	16	1010490-114	INSULATION SLEEVING HEAT SHRINK (WHITE)
	20	AR	1012507-001	LACING TAPE
	21	AR	1012503- 1	COMPOUND POLYURETHANE
	22	AR	1012503- 2	COMPOUND POLYURETHANE
	23	1	1010812- 3	SEAL, CONNECTOR

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SCALE - NONE | REV LTR A | SHEET 6 OF 18

MIL 2085 - 4-63

GWV G+N HARNESS A 1014665

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	▷2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ITEM NO.		▷1	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ITEM NO.		▷1	NO.
A 1	6					T	19							A	19			
A 1R			A1- 2	25	Y					21	S 3-2-C	25	Y					47
A 1Y			A1- 1	25	Y					21	T1- 3	25	Y					22
A 2	4		P1- 31	10	N		14			1	S13-1-NO	25	Y					8
A 3	4		P1- 42	10	N		14			1	S4-2-NO	25	Y					26
A 4	4		P1- 60	10	N		14			1	S26-2-NO	25	Y					7
A 5	4		A1- 10	25	Y					21	S12-3-NC	25	Y					24
A 6	6					A	19							T	19			
A 6R			P1- 8	10	N		14			1	S12-3-NC	25	Y					24
A 6Y			P1- 22	10	N		14			1	S12-2-NO	25	Y					24
A 7	6					A	19							T	19			
A 7R			P1- 24	10	N		14			1	A1- 4	25	Y					21
A 7Y			P1- 10	10	N		14			1	A1- 12	25	Y					21
A 8	2			250		225	11	A	98A			300		275	T	9	7A	
A 8A	7		SHLD A8	25	Y						E2	25	N					2
A 8R			P1- 80	10	N		14			1	T1- 1	25	Y					22
A 8Y			P1- 69	10	N		14			1	T1- 2	25	Y					22
A 9	4		S 4-3-NO	25	Y					26	T1- 1	25	Y					22

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SCALE - NONE | REV LTR A | SHEET 7 OF 18

MIL 2085 - 4-63 WIR

GWV G+N HARNESS A 1014665

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	▷2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ITEM NO.		▷1	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ITEM NO.		▷1	NO.
A 10	4		S 3-1-NC	25	Y					47	T1- 7	25	Y					22
A 11	4		S 3-1-NO	25	Y					47	T1- 5	25	Y					22
A 12	4		A1- 8	25	Y					21	S12-2-C	25	Y					24
A 13	4		P1- 1	10	N		14			1	S15-1-C	25	Y					30
A 14	4		P1- 92	10	N		14			1	S16-7-C	25	Y					39
A 15	4		S16-1-NC	10	N					38	S16-6-C	25	Y					39
A 16	4		P1- 90	10	N		14			1	S16-4-C	25	Y					38
A 17	4		P1-100	10	N		14			1	S16-3-C	25	Y					38
A 18	4		P1- 88	10	N		14			1	S16-1-NC	25	Y					38
A 19	4		P1- 87	10	N		14			1	S16-2-NC	25	Y					38
A 20	4		P1-101	10	N		14			1	S16-3-NC	25	Y					38
A 21	4		P1- 94	10	N		14			1	S16-4-NC	25	Y					38
A 22	4		P1- 74	10	N		14			1	S16-8-NC	25	Y					39
A 23	4		P1- 76	10	N		14			1	S16-5-NC	25	Y					39
A 24	4		P1- 75	10	N		14			1	S16-6-NC	25	Y					39
A 25	4		P1-105	10	N		14			1	S16-7-NC	25	Y					39
A 26	4		P1- 2	10	N		14			1	S12-1-NC	25	Y					24
A 27	4		P1- 14	10	N		14			1	S 1-2-NC	25	Y					44

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665

SCALE - NONE | REV LTR A | SHEET 8 OF 18

MIL 2085 - 4-63 WIR

GWV G+N HARNESS A 1014665

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	▷2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ITEM NO.		▷1	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ITEM NO.		▷1	NO.
A 28	4		P1- 15	10	N		14			1	S 1-2-C	25	Y					44
A 29	4		P1- 33	10	N		14			1	S26-1-NO	25	Y					7
A 30	4		S 4-3-NO	25	Y					26	S 3-2-NO	25	Y					47
A 31	4		P1- 45	10	N		14			1	S 4-3-C	25	Y					26
A 32	4		P1- 47	10	N		14			1	S11- 2-C	25	Y					27
A 33	4		P1- 48	10	N		14			1	S11- 2-NC	25	Y					27
A 34	4		P1- 49	10	N		14			1	S11- 4-NC	25	Y					28
A 35	4		P1- 70	10	N		14			1	S11- 3-NC	25	Y					27
A 36	4		P1- 71	10	N		14			1	S11- 5-C	25	Y					28
A 37	4		S4-2-C	25	Y					26	S26-1-C	25	Y					7
A 38	4		P1- 82	10	N		14			1	S15-1-NC	25	Y					30
A 39	4		S11- 1-C	25	Y					27	S14-2-C	25	Y					25
A 40	4		P1-108	10	N		14			1	S11- 5-NC	25	Y					28
A 41	4		P1- 96	10	N		14			1	S 4-1-NO	25	Y					26
A 42	4		S 2-1-C	25	Y					19	S17-2-C	25	Y					45
A 43	4		S 4-1-C	25	Y					26	S11- 5-C	25	Y					28
A 44	4		S13-1-C	25	Y					8	S14-2-C	25	Y					25
A 45	4		S11- 1-C	25	Y					27	S11- 3-C	25	Y					27

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665

SCALE - NONE | REV LTR A | SHEET 9 OF 18

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.			NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.			NO.
A 46	4		S11- 2-C	25	Y					27	S11- 4-C	25	Y					28
A 47	4		S11- 3-C	25	Y					27	S15-1-C	25	Y					30
A 48	4		P1- 43	10	N		14			1	S26-2-C	25	Y					7
A 49	4		P1- 72	10	N		14			1	S11-1-NC	25	Y					27
A 50	4		S16-4-C	25	Y					38	S16-5-C	25	Y					39
A 51	4		S11- 3-NO	25	Y					27	S12-1-C	25	Y					24
A 52	4		S 9-5-NO	25	Y					35	S20-3-C	25	Y					32
A 53	2			250		225	11	A	98A			250		225	T	9	7A	
A 53A	7		SHLD A53	25	Y						E2	25	N					2
A 53R			P1- 95	10	N		14			1	S 9-1-C	25	Y					34
A 53Y			P1- 81	10	N		14			1	S 9-1-NO	25	Y					34
A 54	4		S11-4-C	25	Y					28	S 4-2-C	25	Y					26
A 55	4		S 9-4-C	25	Y					34	S20-1-NC	25	Y					32
A 56	4		S 9-5-C	25	Y					35	S20-4-NC	25	Y					32
A 57	4		S 9-8-NO	25	Y					35	S20-2-NC	25	Y					32
A 58	6					A	19							T	19			
A 58R			P1- 54	10	N		14			1	S17-1-NC	25	Y					45
A 58Y			P1- 84	10	N		14			1	S17-2-NC	25	Y					45

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR A | SHEET 10 OF 18

MIL 2085 - 4-63 WIN

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.			NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.			NO.
A 59	6					A	19							T	19			
A 59R			P1- 34	10	N		14			1	S12-3-NO	25	Y					24
A 59Y			P1- 35	10	N		14			1	S12-3-C	25	Y					24
A 60	6					T	19							T	19			
A 60R			S17-1-NC	25	Y					45	S12-4-NC	25	Y					24
A 60Y			S17-2-NC	25	Y					45	S12-4-NO	25	Y					24
A 61	4		S20-1-C	25	Y					32	S 9-4-NO	25	Y					34
A 62	4		S12-4-C	25	Y					24	XDS12-HI	25	Y					23
A 63			DELETED															
A 64	6					T	19							T	19			
A 64R			XDS 4-HI	25	Y					20	XDS 3-HI	25	Y					5
A 64Y			XDS 4-LO	25	Y					20	XDS 3-LO	25	Y					5
A 65	4		P1- 40	10	N		14			1	S10- 5	25	Y					6
A 66	4		P1- 52	10	N		14			1	XDS12-LO	25	Y					23
A 67	4		P1- 61	10	N		14			1	S17-1-C	25	Y					45
A 68	5		P1- 83	10	N		14			1	E2	25	Y		11			2
A 69	4		S 1-1-C	25	Y					44	S18-3-NC	25	Y					31
A 70	5		P1- 91	10	N		14			1	E1	25	Y		18			3

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR A | SHEET 11 OF 18

MIL 2085 - 4-63 WIN

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.			NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.			NO.
A 71	4		S19-1-C	25	Y					10	S19-2-C	25	Y					13
A 72	3					A	13							T	13			
A 72G			P1- 18	10	N		14			1	S19-2-C	25	Y	200				14
A 72R			P1- 5	10	N		14			1	S19-2-NO	25	Y	190				14A
A 72Y			P1- 4	10	N		14			1	S19-1-NO	25	Y					9
A 73	4		XDS12-LO	25	Y					23	XDS 4-LO	25	Y					20
A 74	4		S 2-1-NC	25	Y					19	XDS 4-HI	25	Y					20
A 75	4		P1- 32	10	N		14			1	S25-1-NO	25	Y					46
A 76	4		S25-1-NO	25	Y					46	R1-CW	25	Y					49
A 77	4		P1- 44	10	N		14			1	R1-CCW	25	Y					49
A 78	4		P1- 26	10	N		14			1	S25-1-C	25	Y					46
A 79	4		S19-4-C	25	Y					18	S19-3-C	25	Y					11
A 80	3					A	13							T	13			
A 80G			P1- 6	10	N		14			1	S19-4-NO	25	Y					17
A 80R			P1- 20	10	N		14			1	S19-3-NO	25	Y	300				11
A 80Y			P1- 7	10	N		14			1	S19-3-C	25	Y	300				11
A 81	4		S19-5-C	25	Y					16	S19-6-C	25	Y					12
A 82	3					A	13							T	13			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR A | SHEET 12 OF 18

MIL 2085 - 4-63 WIN

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.			NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.			NO.
A 82G			P1- 17	10	N		14			1	S19-6-NO	25	Y	150				12
A 82R			P1- 3	10	N		14			1	S19-5-NO	25	Y					15
A 82Y			P1- 16	10	N		14			1	S19-6-C	25	Y	150				12
A 83	4		S 7-2-NO	25	Y					40	S23-1-C	25	Y					41
A 84	4		S 7-1-NO	25	Y					40	S 8-1-C	25	Y					42
A 85	4		P1-104	10	N		14			1	S 7-1-NC	25	Y					40
A 86	4		P1-103	10	N		14			1	S 8-1-NC	25	Y					42
A 87	4		P1- 41	10	N		14			1	S10- 1	25	Y					6
A 88	4		P1- 50	10	N		14			1	S10- 3	25	Y					6
A 89	4		P1-102	10	N		14			1	S23-1-NC	25	Y					41
A 90	4		P1- 98	10	N		14			1	S 7-1-C	25	Y					40
A 91	4		P1- 97	10	N		14			1	S 8-1-NO	25	Y					42
A 92	4		P1- 89	10	N		14			1	S 7-2-NC	25	Y					40
A 93	4		P1- 73	10	N		14			1	S 1-1-NC	25	Y					44
A 94	4		P1- 86	10	N		14			1	S23-1-NO	25	Y					41
A 95	4		S 5-5-NO	25	Y					4A	S25-1-C	25	Y					46
A 96	4		P1- 85	10	N		14			1	S 7-2-C	25	Y					40
A 97	4		P1-106	10	N		14			1	S20-2-NO	25	Y					32

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR A | SHEET 13 OF 18

MIL 2085 - 4-63 WIN

GWV G+N HARNESS A 1014665

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	2	ITEM NO.			SPEC. 1	NO.	TO CIRCUIT POINT	2	TIN	2	ITEM NO.			SPEC 1	NO.
A 98	4		P1- 93	10	N		14				1	S21-3-NO	25	Y						33
A 99	1			250		225	10	A	128A				225		200	T	12		7A	
A 99A	7		SHLD A99	25	Y							E2	25	N						2
A 99Y			P1- 68	10	N		14				1	S20-4-C	25	Y						32
A 100	4		P1- 79	10	N		14				1	S21-3-C	25	Y						33
A 101	4		P1- 78	10	N		14				1	S20-2-C	25	Y						32
A 102	4		P1- 58	10	N		14				1	S14-1-NC	25	Y						25
A 103	4		P1- 59	10	N		14				1	S14-1-NO	25	Y						25
A 104	4		P1- 67	10	N		14				1	S 9-8-C	25	Y						35
A 105	2			350		325	11	A	98B				350		325	T	9		7A	
A 105A	7		SHLD A105	25	Y							E2	25	N						2
A 105R			P1- 55	10	N		14				1	S18-2-NO	25	Y						31
A 105Y			P1- 46	10	N		14				1	S18-2-NC	25	Y						31
A 106	1			350		325	10	A	128B				350		325	T	12		7A	
A 106A	7		SHLD A106	25	Y							E2	25	N						2
A 106Y			P1- 53	10	N		14				1	S18-1-NC	25	Y						31
A 107	6					A	19								T	19				
A 107R			P1- 77	10	N		14				1	S 9-7-NO	25	Y	300					35

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR A | SHEET 14 OF 18

MIL 2085 · 4-63 WIN

GWV G+N HARNESS A 1014665

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	2	ITEM NO.			SPEC. 1	NO.	TO CIRCUIT POINT	2	TIN	2	ITEM NO.			SPEC 1	NO.
A 107Y			P1- 65	10	N		14				1	S 9-2-NO	25	Y						34
A 108	4		P1- 51	10	N		14				1	S18-3-NC	25	Y						31
A 109	4		S18-3-C	25	Y						31	S21-1-C	25	Y						33
A 110	4		P1- 66	10	N		14				1	S 9-2-C	25	Y						34
A 111	4		P1- 30	10	N		14				1	S26-1-NC	25	Y						7
A 112			DELETED																	
A 113			DELETED																	
A 114			DELETED																	
A 115			DELETED																	
A 116			DELETED																	
A 117	4		P1- 38	10	N		14				1	S 5-5-C	25	Y						4A
A 118	4		P1- 39	10	N		14				1	S 5-1-C	25	Y						4
A 119	4		P1- 62	10	N		14				1	S 5-2-C	25	Y						4
A 120	4		P1- 99	10	N		14				1	S 5-3-C	25	Y						4
A 121	4		P1-107	10	N		14				1	S 5-4-C	25	Y						4
A 122	4		S 5-4-NC	25	Y						4	S 5-5-NO	25	Y						4A
A 123	4		T1- 2	25	Y						22	T1- 3	25	Y						22
A 124	4		S 3-1-C	25	Y						47	S 3-2-NC	25	Y						47

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR A | SHEET 15 OF 18

MIL 2085 · 4-63 WIN

GWV G+N HARNESS A 1014665

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	2	ITEM NO.			SPEC. 1	NO.	TO CIRCUIT POINT	2	TIN	2	ITEM NO.			SPEC 1	NO.
A 125	4		S16-7-C	25	Y						39	S16-8-C	25	Y						39
A 126	4		S16-3-C	25	Y						38	S16-2-C	25	Y						38
A 127	4		S16-2-C	25	Y						38	S16-1-C	25	Y						38
A 128	4		S17-1-C	25	Y						45	S17-2-C	25	Y						45
A 129	4		R1-WIPER	25	Y						49	R1-CW	25	Y						49
A 130	4		S10- 4	25	Y						6	S10- 3	25	Y						6
A 131	4		S14-1-C	25	Y						25	S14-2-NC	25	Y						25
A 132	4		S18-2-C	25	Y						31	S18-1-C	25	Y						31
A 133	4		S21-3-NC	25	Y						33	S20-2-NC	25	Y						32
A 134	4		S21-1-C	25	Y						33	S20-1-C	25	Y						32
A 135	4		S 9-4-NO	25	Y						34	S 9-8-NO	25	Y						35
A 136	4		S 9-2-C	25	Y						34	S 9-7-C	25	Y						35
A 137	4		S 9-1-C	25	Y						34	S 9-5-C	25	Y						35
A 138	4		S20-4-NC	25	Y						32	S20-3-NC	25	Y						32
A 139	4		S20-3-NC	25	Y						32	S21-4-NC	25	Y						33
A 140	4		S21-4-NC	25	Y						33	S21-2-NC	25	Y						33
A 141	4		S 9-8-C	25	Y						35	S 9-4-C	25	Y						34
A 142	4		S20-1-NC	25	Y						32	S21-1-NC	25	Y						33

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR A | SHEET 16 OF 18

MIL 2085 · 4-63 WIN

GWV G+N HARNESS A 1014665

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	2	ITEM NO.			SPEC. 1	NO.	TO CIRCUIT POINT	2	TIN	2	ITEM NO.			SPEC 1	NO.
A 143	4		S 9-1-NO	25	Y						34	S 9-5-NO	25	Y						35
A 144	4		S20-3-C	25	Y						32	S21-4-C	25	Y						33
A 145	4		S20-4-C	25	Y						32	S21-2-C	25	Y						33
A 146	4		S12-2-NC	25	Y						24	S12-3-NO	25	Y						24
A 147	4		A1- 3	25	Y						21	A1- 2	25	Y						21
A 148	4		S 5-1-NC	25	Y						4	S 5-2-NC	25	Y						4
A 149	4		S 5-2-NC	25	Y						4	S 5-3-NC	25	Y						4
A 150	4		S 5-3-NC	25	Y						4	S 5-4-NC	25	Y						4

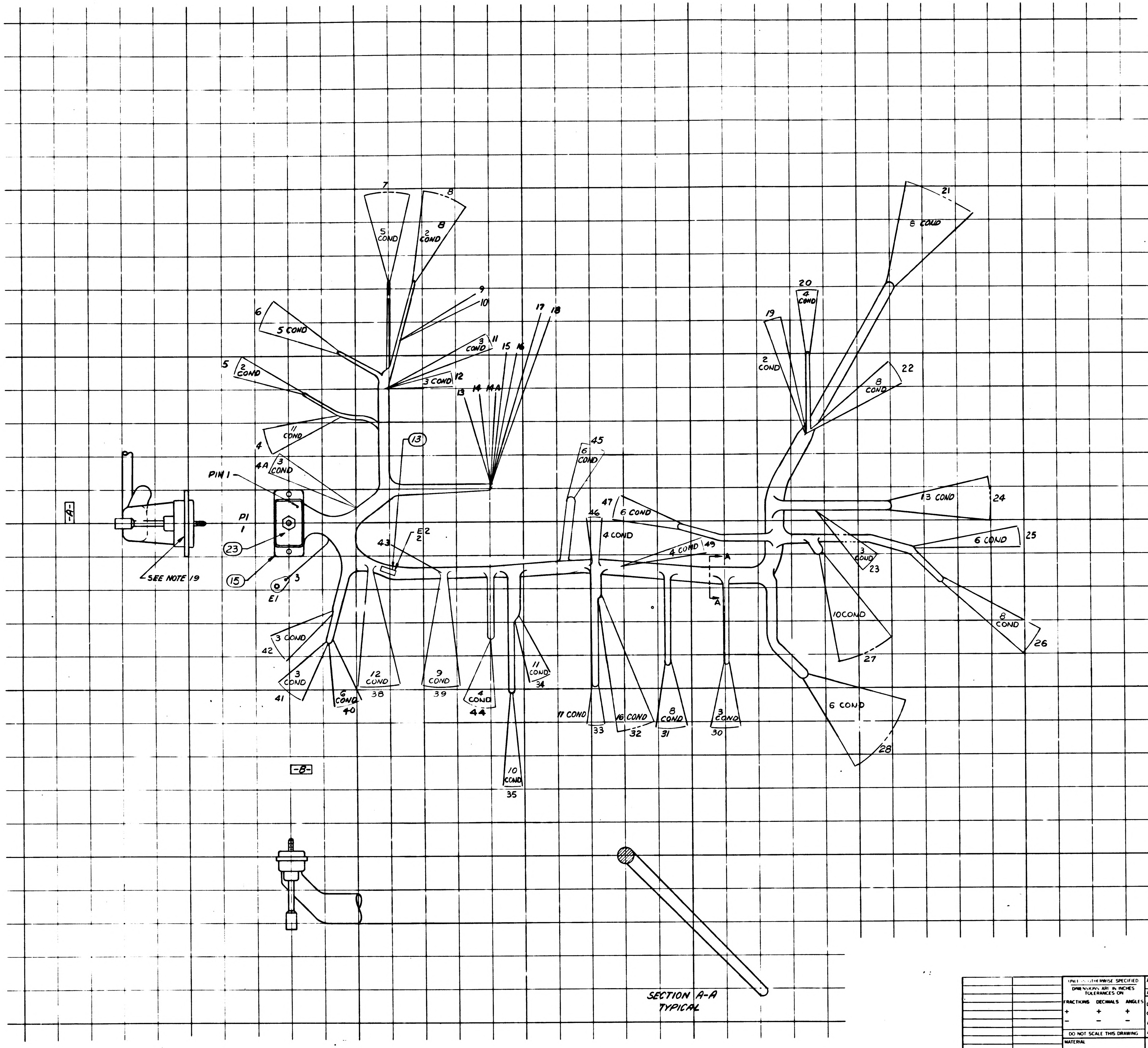
1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR A | SHEET 17 OF 18

MIL 2085 · 4-63 WIN

Ⓒ 14847

SEE SHEET 1 FOR REVISION RECORD



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-B-
SECTION A-A
TYPICAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS-9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN John Ross DATE 8-14-64
CHECKED H. Boehme 9/26/64
APPROVAL [illegible]
APPROVAL
NASA APPROVAL [illegible]
M.I.T APPROVAL [illegible] 15 Dec 64

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO
SIZE E
1014665
SCALE 1/1
SHEET 18 OF 18

14847

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014664-011	1015023-021 Ⓜ	A	REVISED PER TDRR 17727	24 MAR 65	JWP
		B	REVISED PER TDRR 18979	17 MAY 65	JRS

REV																		
SHEET																		
REV STATUS	REV	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO
CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN DATE 17 AUG 64
CHECKED F. Boehme 9-25-64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
CONTRACT

WIRING HARNESS "A"
G & N INDICATOR CONTROL PANEL

CODE IDENT NO. 80230
SIZE A
1014665
REV B
SCALE —
SHEET 1 OF 17

GWV G+N HARNESS B 1014665

PENNANT GENERAL NOTES

NOTE

1 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2 DELETED

3 MARK SLEEVING OF SINGLE CONDUCTORS .06 ± .02 HIGH, COLOR BLACK, WITH THE CONDUCTOR NUMBER OMITTING ALL SUFFIX LETTERS EXCEPT A AND B PER ND1002019, WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

4 CONDUCTOR IDENTIFICATION SLEEVING SHALL BE STAGGERED AT TERMINATION NO. 1 TO MINIMIZE THE WIRE BUNDLE DIAMETER.

5 DELETED

6 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

7 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

9 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND1002206

10 SOLDER PER ND1002071 USING ITEMS 16 AND 17.

11 GRID MODULE IS 1 INCH TRUE POSITION.

12 UNLESS OTHERWISE SPECIFIED ---
   FEATURE CENTERLINES ARE LOCATED WITHIN + OR - .25 INCH.
   END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - .12 INCH.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE - NONE | REV LTR B | SHEET 2 OF 17

MIL 2084 4-63

GWV G+N HARNESS B 1014665

PENNANT GENERAL NOTES

NOTE

13 LACE HARNESS USING ITEM 20.

14 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
   A - FROM END SHIELD
   B - TO END SHIELD
   K - BLACK
   R - RED
   Y - YELLOW
   G - GREEN

15 FABRICATE HARNESS IN ACCORDANCE WITH ND 1002032

16 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1

17 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATIONS PREFIX WITH 50A1.

18 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP		CUT	
		WIRE	JACKET	WIRE	SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06.
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50

19 POT REAR OF CONNECTOR (WIRE SIDE) PER ND 1002236

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE - NONE | REV LTR B | SHEET 3 OF 17

MIL 2084 4-63

GWV G+N HARNESS B 1014665

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014665- 1	WIRE PER 1010789-011 YEL JKT 24AWG YEL. 2 FT 11.5 IN TOTAL LENGTH
	2	1	1014665- 2	WIRE PER 1010789-012 YEL JKT 24AWG YEL, RED. 4 FT 3.5 IN TOTAL LENGTH
	3	1	1014665- 3	WIRE PER 1010789-004 24AWG YEL, RED, GRN. 4 FT 7 IN TOTAL LENGTH
	4	1	1014665- 4	WIRE PER 1010789-001 24AWG YEL. 127 FT 7.5 IN TOTAL LENGTH
	5	1	1014665- 5	WIRE PER 1010789-006 22AWG YEL. 1 FT 0.5 IN TOTAL LENGTH
	6	1	1014665- 6	WIRE PER 1010789-003 24AWG YEL, RED. 13 FT 1 IN TOTAL LENGTH
	7	1	1014665- 7	WIRE PER 1010789-002 24AWG BLK. 2 FT 6 IN TOTAL LENGTH
	9			DELETED (1010490-168)
	10	2	1010402- 1	SOLDER SLEEVE
	11	4	1010402- 2	SOLDER SLEEVE
	12			DELETED (1010490-172)
	13			DELETED (1010490-112)
	14	108	1010738- 5	CONTACT ELECTRICAL
	15	1	1010825- 4	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER (ES2175 ALLOY 1) SN60 WRAP2

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE - NONE | REV LTR B | SHEET 4 OF 17

MIL 2084 4-63

GWV G+N HARNESS B 1014665

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	MIL-F-14256	FLUX (ES2798)
	18	1	1010638- 6	TERMINAL
	19			DELETED (1010490-114)
	20	AR	1012507-001	LACING TAPE
	21	AR	1012503- 1	COMPOUND POLYURETHANE
	22	AR	1012503- 2	COMPOUND POLYURETHANE
	23	1	1010812- 3	SEAL, CONNECTOR
	24	32	1010911-052	INSULATION SLEEVING, HEAT SHRINKABLE
	25	266	1010911-044	INSULATION SLEEVING, HEAT SHRINKABLE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE - NONE | REV LTR B | SHEET ~~4~~ 5 OF ~~16~~ 17

MIL 2084 4-63

GWV G+N HARNESS B 1014665

CONDUCTOR INDIVIDUAL LENGTH			FROM						TO					
NUMBER	ITEM NO.	②	CIRCUIT POINT	STRIP WIRE OR JACKET ②	TIN	CUT WIRE OR SHIELD ②	TERMINATION SPEC. ① ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET ②	TIN	CUT WIRE OR SHIELD ②	TERMINATION SPEC ① ITEM NO.	NO.
A 1	6						A 24						T 24	
A 1R			A1- 2	25	Y			21	S 3-2-C	25	Y			47
A 1Y			A1- 1	25	Y			21	T1- 3	25	Y			22
A 2	4		P1- 31	10	N		14 A 25	1	S13-1-NO	25	Y		T 25	8
A 3	4		P1- 42	10	N		14 A 25	1	S4-2-NO	25	Y		T 25	26
A 4	4		P1- 60	10	N		14 A 25	1	S26-2-NO	25	Y		T 25	7
A 5	4		A1- 10	25	Y		A 25	21	S12-3-NC	25	Y		T 25	24
A 6	6						A 24						T 24	
A 6R			P1- 8	10	N		14	1	S12-3-NC	25	Y			24
A 6Y			P1- 22	10	N		14	1	S12-2-NO	25	Y			24
A 7	6						A 24						T 24	
A 7R			P1- 24	10	N		14	1	A1- 4	25	Y			21
A 7Y			P1- 10	10	N		14	1	A1- 12	25	Y			21
A 8	2			250		225	11 A 24 8A			300		275	T 24 7A	
A 8A	7		SHLD A8	25	Y		A 25		E2	25	N		T 25	2
A 8R			P1- 80	10	N		14	1	T1- 1	25	Y			22
A 8Y			P1- 69	10	N		14	1	T1- 2	25	Y			22
A 9	4		S 4-3-NO	25	Y		A 25	26	T1- 1	25	Y		T 25	22

① THE STD CONDUCTOR TERMINATION FIGURES ARE PER
② DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014665
SCALE - NONE
REV LTR B
SHEET ~~7~~ 6 OF ~~18~~ 17

MIL 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR INDIVIDUAL LENGTH			FROM						TO					
NUMBER	ITEM NO.	②	CIRCUIT POINT	STRIP WIRE OR JACKET ②	TIN	CUT WIRE OR SHIELD ②	TERMINATION SPEC. ① ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET ②	TIN	CUT WIRE OR SHIELD ②	TERMINATION SPEC ① ITEM NO.	NO.
A 10	4		S 3-1-NC	25	Y		A 25	47	T1- 7	25	Y		T 25	22
A 11	4		S 3-1-NO	25	Y		A 25	47	T1- 5	25	Y		T 25	22
A 12	4		A1- 8	25	Y		A 25	21	S12-2-C	25	Y		T 25	24
A 13	4		P1- 1	10	N		14 A 25	1	S15-1-C	25	Y		T 25	30
A 14	4		P1- 92	10	N		14 A 25	1	S16-7-C	25	Y		T 25	39
A 15	4		S16-1-NC	10	N		A 25	38	S16-6-C	25	Y		T 25	39
A 16	4		P1- 90	10	N		14 A 25	1	S16-4-C	25	Y		T 25	38
A 17	4		P1-100	10	N		14 A 25	1	S16-3-C	25	Y		T 25	38
A 18	4		P1- 88	10	N		14 A 25	1	S16-1-NC	25	Y		T 25	38
A 19	4		P1- 87	10	N		14 A 25	1	S16-2-NC	25	Y		T 25	38
A 20	4		P1-101	10	N		14 A 25	1	S16-3-NC	25	Y		T 25	38
A 21	4		P1- 94	10	N		14 A 25	1	S16-4-NC	25	Y		T 25	38
A 22	4		P1- 74	10	N		14 A 25	1	S16-8-NC	25	Y		T 25	39
A 23	4		P1- 76	10	N		14 A 25	1	S16-5-NC	25	Y		T 25	39
A 24	4		P1- 75	10	N		14 A 25	1	S16-6-NC	25	Y		T 25	39
A 25	4		P1-105	10	N		14 A 25	1	S16-7-NC	25	Y		T 25	39
A 26	4		P1- 2	10	N		14 A 25	1	S12-1-NC	25	Y		T 25	24
A 27	4		P1- 14	10	N		14 A 25	1	S 1-2-NC	25	Y		T 25	44

① THE STD CONDUCTOR TERMINATION FIGURES ARE PER
② DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014665
SCALE - NONE
REV LTR B
SHEET ~~6~~ 7 OF ~~18~~ 17

MIL 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR INDIVIDUAL LENGTH			FROM						TO					
NUMBER	ITEM NO.	②	CIRCUIT POINT	STRIP WIRE OR JACKET ②	TIN	CUT WIRE OR SHIELD ②	TERMINATION SPEC. ① ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET ②	TIN	CUT WIRE OR SHIELD ②	TERMINATION SPEC ① ITEM NO.	NO.
A 28	4		P1- 15	10	N		14 A 25	1	S 1-2-C	25	Y		T 25	44
A 29	4		P1- 33	10	N		14 A 25	1	S26-1-NO	25	Y		T 25	7
A 30	4		S 4-3-NO	25	Y		A 25	26	S 3-2-NO	25	Y		T 25	47
A 31	4		P1- 45	10	N		14 A 25	1	S 4-3-C	25	Y		T 25	26
A 32	4		P1- 47	10	N		14 A 25	1	S11- 2-C	25	Y		T 25	27
A 33	4		P1- 48	10	N		14 A 25	1	S11- 2-NC	25	Y		T 25	27
A 34	4		P1- 49	10	N		14 A 25	1	S11- 4-NC	25	Y		T 25	28
A 35	4		P1- 70	10	N		14 A 25	1	S11- 3-NC	25	Y		T 25	27
A 36	4		P1- 71	10	N		14 A 25	1	S11- 5-C	25	Y		T 25	28
A 37	4		S4-2-C	25	Y		A 25	26	S26-1-C	25	Y		T 25	7
A 38	4		P1- 82	10	N		14 A 25	1	S15-1-NC	25	Y		T 25	30
A 39	4		S11- 1-C	25	Y		A 25	27	S14-2-C	25	Y		T 25	25
A 40	4		P1-108	10	N		14 A 25	1	S11- 5-NC	25	Y		T 25	28
A 41	4		P1- 96	10	N		14 A 25	1	S 4-1-NO	25	Y		T 25	26
A 42	4		S 2-1-C	25	Y		A 25	19	S17-2-C	25	Y		T 25	45
A 43	4		S 4-1-C	25	Y		A 25	26	S11- 5-C	25	Y		T 25	28
A 44	4		S13-1-C	25	Y		A 25	8	S14-2-C	25	Y		T 25	25
A 45	4		S11- 1-C	25	Y		A 25	27	S11- 3-C	25	Y		T 25	27

① THE STD CONDUCTOR TERMINATION FIGURES ARE PER
② DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014665
SCALE - NONE
REV LTR B
SHEET ~~7~~ 8 OF ~~18~~ 17

MIL 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR INDIVIDUAL LENGTH			FROM						TO					
NUMBER	ITEM NO.	②	CIRCUIT POINT	STRIP WIRE OR JACKET ②	TIN	CUT WIRE OR SHIELD ②	TERMINATION SPEC. ① ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET ②	TIN	CUT WIRE OR SHIELD ②	TERMINATION SPEC ① ITEM NO.	NO.
A 46	4		S11- 2-C	25	Y		A 25	27	S11- 4-C	25	Y		T 25	28
A 47	4		S11- 3-C	25	Y		A 25	27	S15-1-C	25	Y		T 25	30
A 48	4		P1- 43	10	N		14 A 25	1	S26-2-C	25	Y		T 25	7
A 49	4		P1- 72	10	N		14 A 25	1	S11-1-NC	25	Y		T 25	27
A 50	4		S16-4-C	25	Y		A 25	38	S16-5-C	25	Y		T 25	39
A 51	4		S11- 3-NO	25	Y		A 25	27	S12-1-C	25	Y		T 25	24
A 52	4		S 9-5-NO	25	Y		A 25	35	S20-3-C	25	Y		T 25	32
A 53	2			250		225	11 A 24 8A			250		225	T 24 7A	
A 53A	7		SHLD A53	25	Y		A 25		E2	25	N		T 25	2
A 53R			P1- 95	10	N		14	1	S 9-1-C	25	Y			34
A 53Y			P1- 81	10	N		14	1	S 9-1-NO	25	Y			34
A 54	4		S11-4-C	25	Y		A 25	28	S 4-2-C	25	Y		T 25	26
A 55	4		S 9-4-C	25	Y		A 25	34	S20-1-NC	25	Y		T 25	32
A 56	4		S 9-5-C	25	Y		A 25	35	S20-4-NC	25	Y		T 25	32
A 57	4		S 9-8-NO	25	Y		A 25	35	S20-2-NC	25	Y		T 25	32
A 58	6						A 24						T 24	
A 58R			P1- 54	10	N		14	1	S17-1-NC	25	Y			45
A 58Y			P1- 84	10	N		14	1	S17-2-NC	25	Y			45

① THE STD CONDUCTOR TERMINATION FIGURES ARE PER
② DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014665
SCALE - NONE
REV LTR B
SHEET ~~10~~ 9 OF ~~18~~ 17

MIL 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.
A 59	6						A 24							T 24		
A 59R			P1- 34	10	N		14		1	S12-3-NO	25	Y				24
A 59Y			P1- 35	10	N		14		1	S12-3-C	25	Y				24
A 60	6						A 24							T 24		
A 60R			S17-1-NC	25	Y				45	S12-4-NC	25	Y				24
A 60Y			S17-2-NC	25	Y				45	S12-4-NO	25	Y				24
A 61	4		S20-1-C	25	Y		A 25		32	S 9-4-NO	25	Y		T 25		34
A 62	4		S12-4-C	25	Y		A 25		24	XDS12-HI	25	Y		T 25		23
A 63			DELETED													
A 64	4						A 24							T 24		
A 64R			XDS 4-HI	25	Y				20	XDS 3-HI	25	Y				5
A 64Y			XDS 4-LO	25	Y				20	XDS 3-LO	25	Y				5
A 65	4		P1- 40	10	N		14	A 25	1	S10- 5	25	Y		T 25		6
A 66	4		P1- 52	10	N		14	A 25	1	XDS12-LO	25	Y		T 25		23
A 67	4		P1- 61	10	N		14	A 25	1	S17-1-C	25	Y		T 25		45
A 68	5		P1- 83	10	N		14	A 25	1	E2	25	Y		11	T 25	2
A 69	4		S 1-1-C	25	Y		A 25		44	S18-3-NC	25	Y		T 25		31
A 70	5		P1- 91	10	N		14	A 25	1	E1	25	Y		18	T 25	3

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665

SCALE - NONE | REV LTR | SHEET 10 OF 17

MIL 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.
A 71	4		S19-1-C	25	Y		A 25		10	S19-2-C	25	Y		T 25		13
A 72	3						A 24							T 24		
A 72G			P1- 18	10	N		14		1	S19-2-C	25	Y	200			14
A 72R			P1- 5	10	N		14		1	S19-2-NO	25	Y	190			14A
A 72Y			P1- 4	10	N		14		1	S19-1-NO	25	Y				9
A 73	4		XDS12-LO	25	Y		A 25		23	XDS 4-LO	25	Y		T 25		20
A 74	4		S 2-1-NC	25	Y		A 25		19	XDS 4-HI	25	Y		T 25		20
A 75	4		P1- 32	10	N		14	A 25	1	S25-1-NO	25	Y		T 25		46
A 76	4		S25-1-NO	25	Y		A 25		46	R1-CW	25	Y		T 25		49
A 77	4		P1- 44	10	N		14	A 25	1	R1-CCW	25	Y		T 25		49
A 78	4		P1- 26	10	N		14	A 25	1	S25-1-C	25	Y		T 25		46
A 79	4		S19-4-C	25	Y		A 25		18	S19-3-C	25	Y		T 25		11
A 80	3						A 24							T 24		
A 80G			P1- 6	10	N		14		1	S19-4-NO	25	Y				17
A 80R			P1- 20	10	N		14		1	S19-3-NO	25	Y	300			11
A 80Y			P1- 7	10	N		14		1	S19-3-C	25	Y	300			11
A 81	4		S19-5-C	25	Y		A 25		16	S19-6-C	25	Y		T 25		12
A 82	3						A 24							T 24		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665

SCALE - NONE | REV LTR | SHEET 11 OF 17

MIL 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.
A 82G			P1- 17	10	N		14		1	S19-6-NO	25	Y	150			12
A 82R			P1- 3	10	N		14		1	S19-5-NO	25	Y				15
A 82Y			P1- 16	10	N		14		1	S19-6-C	25	Y	150			12
A 83	4		S 7-2-NO	25	Y		A 25		40	S23-1-C	25	Y		T 25		41
A 84	4		S 7-1-NO	25	Y		A 25		40	S 8-1-C	25	Y		T 25		42
A 85	4		P1-104	10	N		14	A 25	1	S 7-1-NC	25	Y		T 25		40
A 86	4		P1-103	10	N		14	A 25	1	S 8-1-NC	25	Y		T 25		42
A 87	4		P1- 41	10	N		14	A 25	1	S10- 1	25	Y		T 25		6
A 88	4		P1- 50	10	N		14	A 25	1	S10- 3	25	Y		T 25		6
A 89	4		P1-102	10	N		14	A 25	1	S23-1-NC	25	Y		T 25		41
A 90	4		P1- 98	10	N		14	A 25	1	S 7-1-C	25	Y		T 25		40
A 91	4		P1- 97	10	N		14	A 25	1	S 8-1-NO	25	Y		T 25		42
A 92	4		P1- 89	10	N		14	A 25	1	S 7-2-NC	25	Y		T 25		40
A 93	4		P1- 73	10	N		14	A 25	1	S 1-1-NC	25	Y		T 25		44
A 94	4		P1- 86	10	N		14	A 25	1	S23-1-NO	25	Y		T 25		41
A 95	4		S 5-5-NO	25	Y		A 25		4A	S25-1-C	25	Y		T 25		46
A 96	4		P1- 85	10	N		14	A 25	1	S 7-2-C	25	Y		T 25		40
A 97	4		P1-106	10	N		14	A 25	1	S20-2-NO	25	Y		T 25		32

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665

SCALE - NONE | REV LTR | SHEET 12 OF 17

MIL 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR NUMBER	ITEM NO.	2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.
A 98	4		P1- 93	10	N		14	A 25	1	S21-3-NO	25	Y		T 25		33
A 99	1			250		225	10	A 24	8A		225		200	T 24		7A
A 99A	7		SHLD A99	25	Y		A 25			E2	25	N		T 25		2
A 99Y			P1- 68	10	N		14		1	S20-4-C	25	Y				32
A 100	4		P1- 79	10	N		14	A 25	1	S21-3-C	25	Y		T 25		33
A 101	4		P1- 78	10	N		14	A 25	1	S20-2-C	25	Y		T 25		32
A 102	4		P1- 58	10	N		14	A 25	1	S14-1-NC	25	Y		T 25		25
A 103	4		P1- 59	10	N		14	A 25	1	S14-1-NO	25	Y		T 25		25
A 104	4		P1- 67	10	N		14	A 25	1	S 9-8-C	25	Y		T 25		35
A 105	2			350		325	11	A 24	8B		350		325	T 24		7A
A 105A	7		SHLD A105	25	Y		A 25			E2	25	N		T 25		2
A 105R			P1- 55	10	N		14		1	S18-2-NO	25	Y				31
A 105Y			P1- 46	10	N		14		1	S18-2-NC	25	Y				31
A 106	1			350		325	10	A 24	8B		350		325	T 24		7A
A 106A	7		SHLD A106	25	Y		A 25			E2	25	N		T 25		2
A 106Y			P1- 53	10	N		14		1	S18-1-NC	25	Y				31
A 107	6						A 24							T 24		
A 107R			P1- 77	10	N		14		1	S 9-7-NO	25	Y	300			35

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665

SCALE - NONE | REV LTR | SHEET 13 OF 17

MIL 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 107Y			P1- 65	10	N	14	1	S 9-2-NO	25	Y		34
A 108	4		P1- 51	10	N	14 A 25	1	S18-3-NC	25	Y	T 25	31
A 109	4		S18-3-C	25	Y	A 25	31	S21-1-C	25	Y	T 25	33
A 110	4		P1- 66	10	N	14 A 25	1	S 9-2-C	25	Y	T 25	34
A 111	4		P1- 30	10	N	14 A 25	1	S26-1-NC	25	Y	T 25	7
A 112			DELETED									
A 113			DELETED									
A 114			DELETED									
A 115			DELETED									
A 116			DELETED									
A 117	4		P1- 38	10	N	14 A 25	1	S 5-5-C	25	Y	T 25	4A
A 118	4		P1- 39	10	N	14 A 25	1	S 5-1-C	25	Y	T 25	4
A 119	4		P1- 62	10	N	14 A 25	1	S 5-2-C	25	Y	T 25	4
A 120	4		P1- 99	10	N	14 A 25	1	S 5-3-C	25	Y	T 25	4
A 121	4		P1-107	10	N	14 A 25	1	S 5-4-C	25	Y	T 25	4
A 122	4		S 5-4-NC	25	Y	A 25	4	S 5-5-NO	25	Y	T 25	4A
A 123	4		T1- 2	25	Y	A 25	22	T1- 3	25	Y	T 25	22
A 124	4		S 3-1-C	25	Y	A 25	47	S 3-2-NC	25	Y	T 25	47

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR B | SHEET 14 OF 17

MIL 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 125	4		S16-7-C	25	Y	A 25	39	S16-8-C	25	Y	T 25	39
A 126	4		S16-3-C	25	Y	A 25	38	S16-2-C	25	Y	T 25	38
A 127	4		S16-2-C	25	Y	A 25	38	S16-1-C	25	Y	T 25	38
A 128	4		S17-1-C	25	Y	A 25	45	S17-2-C	25	Y	T 25	45
A 129	4		R1-WIPER	25	Y	A 25	49	R1-CW	25	Y	T 25	49
A 130	4		S10- 4	25	Y	A 25	6	S10- 3	25	Y	T 25	6
A 131	4		S14-1-C	25	Y	A 25	25	S14-2-NC	25	Y	T 25	25
A 132	4		S18-2-C	25	Y	A 25	31	S18-1-C	25	Y	T 25	31
A 133	4		S21-3-NC	25	Y	A 25	33	S20-2-NC	25	Y	T 25	32
A 134	4		S21-1-C	25	Y	A 25	33	S20-1-C	25	Y	T 25	32
A 135	4		S 9-4-NO	25	Y	A 25	34	S 9-8-NO	25	Y	T 25	35
A 136	4		S 9-2-C	25	Y	A 25	34	S 9-7-C	25	Y	T 25	35
A 137	4		S 9-1-C	25	Y	A 25	34	S 9-5-C	25	Y	T 25	35
A 138	4		S20-4-NC	25	Y	A 25	32	S20-3-NC	25	Y	T 25	32
A 139	4		S20-3-NC	25	Y	A 25	32	S21-4-NC	25	Y	T 25	33
A 140	4		S21-4-NC	25	Y	A 25	33	S21-2-NC	25	Y	T 25	33
A 141	4		S 9-8-C	25	Y	A 25	35	S 9-4-C	25	Y	T 25	34
A 142	4		S20-1-NC	25	Y	A 25	32	S21-1-NC	25	Y	T 25	33

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR B | SHEET 15 OF 17

M 2085 - 4-63 WIR

GWV G+N HARNESS B 1014665

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 143	4		S 9-1-NO	25	Y	A 25	34	S 9-5-NO	25	Y	T 25	35
A 144	4		S20-3-C	25	Y	A 25	32	S21-4-C	25	Y	T 25	33
A 145	4		S20-4-C	25	Y	A 25	32	S21-2-C	25	Y	T 25	33
A 146	4		S12-2-NC	25	Y	A 25	24	S12-3-NO	25	Y	T 25	24
A 147	4		A1- 3	25	Y	A 25	21	A1- 2	25	Y	T 25	21
A 148	4		S 5-1-NC	25	Y	A 25	4	S 5-2-NC	25	Y	T 25	4
A 149	4		S 5-2-NC	25	Y	A 25	4	S 5-3-NC	25	Y	T 25	4
A 150	4		S 5-3-NC	25	Y	A 25	4	S 5-4-NC	25	Y	T 25	4

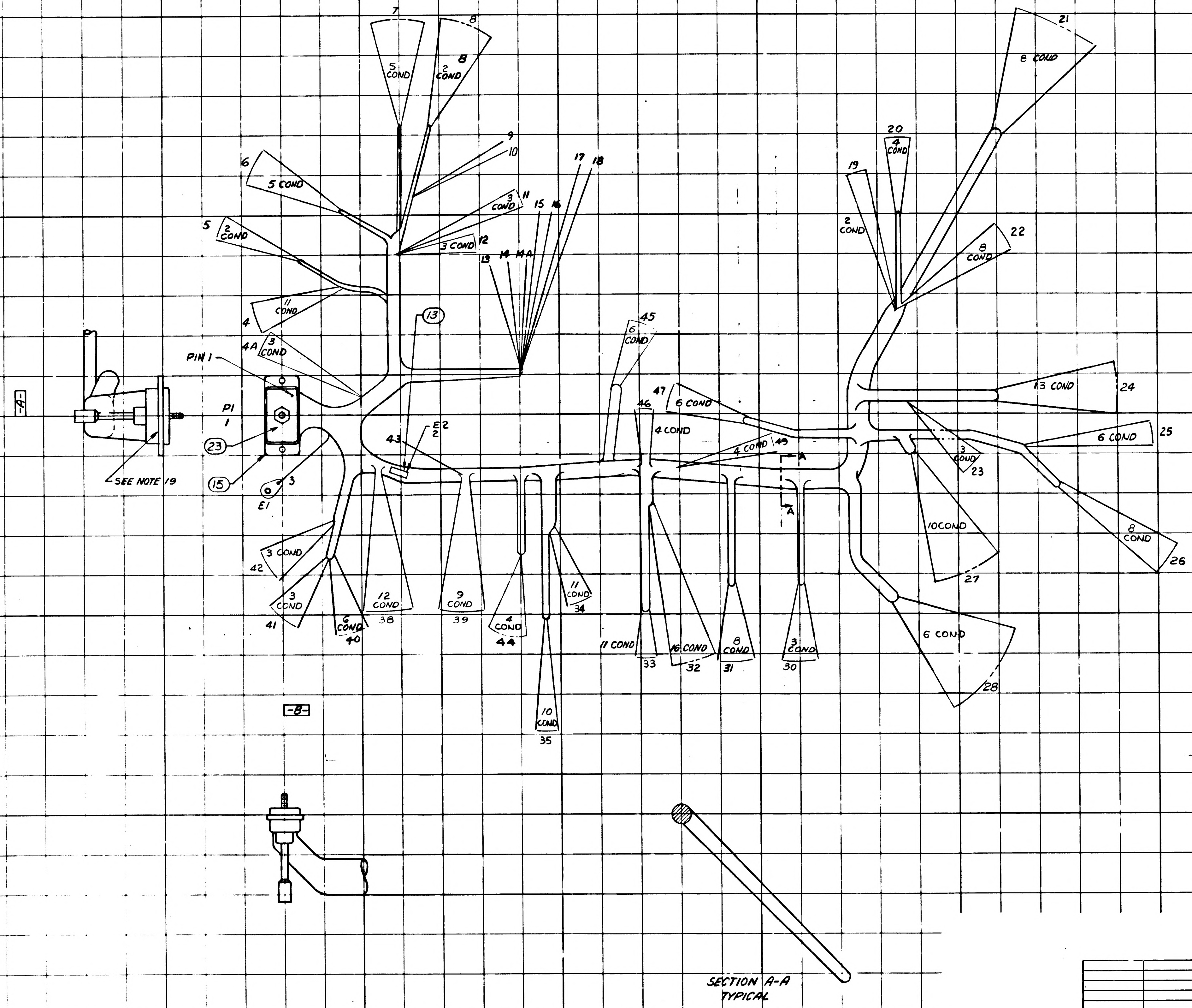
1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE-NONE | REV LTR B | SHEET 16 OF 17

MIL 2085 - 4-63 WIR

© 14845

SEE SHEET 1 FOR REVISION RECORD


7
5 COND
8
2 COND
9
10
6
5 COND
3 COND
11
17
18
15
16
5
2 COND
3 COND
12
13
14
14A
11 COND
4
4A
3 COND
13
PIN 1
P1
1
-A-
23
15
SEE NOTE 19
E1
3
43
E2 2
45
6 COND
47
6 COND
46
4 COND
4 COND
49
A
A
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8 COND
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4 COND
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6 COND
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6 COND
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9 COND
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4 COND
44
11 COND
34
10 COND
35
11 COND
33
16 COND
32
8 COND
31
3 COND
30
-B-
SECTION A-A
TYPICAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + − DECIMALS + − ANGLES + −
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS-9-497

M I T
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN John Ross DATE 8-14-64
CHECKED Boehm 9/26/64
APPROVAL
APPROVAL
NASA APPROVAL
M.I.T APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO 80230
SIZE E
1014665
SCALE 1/1
SHEET 7 OF 17

G+N HARNESS

GENERAL NOTES

1 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2 MARK CONDUCTOR IDENTIFICATION PER ND1002019.

3 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

4 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 1.2 INCHES.

5 SPIRALLING OF THE MARKING IS ALLOWED.

6 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

7 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

9 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND1002206

10 SOLDER PER ND 1002071 USING ITEMS 16 AND 17.

11 GRID MODULE IS 1 INCH TRUE POSITION.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665	
SCALE - NONE	REV LTR		SHEET 2

MIL 2064-4-64

G+N HARNESS

GENERAL NOTES

12 UNLESS OTHERWISE SPECIFIED ---
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - .25 INCH.
END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - .12 INCH.

13 LACE HARNESS USING ITEM 20.

14 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
B - TO END SHIELD
K - BLACK
R - RED
Y - YELLOW
G - GREEN

15 FABRICATE HARNESS IN ACCORDANCE WITH ND 1002032

16 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1

17 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATIONS PREFIX WITH 50A1.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665	
SCALE - NONE	REV LTR		SHEET 3

MIL 2064-4-64

14847

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014664-011	1015023-021				

REV																	
SHEET																	
REV STATUS OF SHEETS	REV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN

DRAWN E. Rotta DATE 17 AUG 64
CHECKED F.J. Boehme 9-25-64
APPROVAL 7/28/64
APPROVAL
NASA APPROVAL 12/15/64
MIT APPROVAL

CONTRACT

WIRING HARNESS "A" G & N INDICATOR CONTROL PANEL

CODE IDENT NO.	SIZE A	1014665	REV -
SCALE —		SHEET 1 OF 16	

G+N HARNESS

GENERAL NOTES

18 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50

19 Pot Rear of Connector (Wire Side) Per ND 1002236

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665	
SCALE - NONE	REV LTR		SHEET 4

MIL 2064-4-64

G+N HARNESS

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	MIL-F-14256	FLUX (ES-2798)
	18	1	1010638- 6	TERMINAL
	19	16	1010490-114	INSULATION SLEEVING HEAT SHRINK (WHITE)
	20	AR	1012507-001	LACING TAPE
	21	AR	1012503- 1	COMPOUND POLYURETHANE
	22	AR	1012503- 2	COMPOUND POLYURETHANE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE - NONE | REV LTR | SHEET 6

MIL 2084-4-64

G+N HARNESS

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET ▷2	FROM T I N	FROM CUT WIRE OR SHIELD ▷2	FROM TERMINATION ITEM NO.	FROM TERMINATION SPEC. ▷1	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET ▷2	TO T I N	TO CUT WIRE OR SHIELD ▷2	TO TERMINATION ITEM NO.	TO TERMINATION SPEC ▷1	TO NO.
A 1	3					T	19						A	19		
A 1R			A1- 2	25	Y				21	S 3-2-C	25	Y				47
A 1Y			A1- 1	25	Y				21	T1- 3	25	Y				22
A 2	4		P1- 31	10	N		14		1	S13-1-NO	25	Y				8
A 3	4		P1- 42	10	N		14		1	S4-2-NO	25	Y				26
A 4	4		P1- 60	10	N		14		1	S26-2-NO	25	Y				7
A 5	4		A1- 10	25	Y				21	S12-3-NC	25	Y				24
A 6	6					A	19						T	19		
A 6R			P1- 8	10	N		14		1	S12-3-NC	25	Y				24
A 6Y			P1- 22	10	N		14		1	S12-2-NO	25	Y				24
A 7	6					A	19						T	19		
A 7R			P1- 24	10	N		14		1	A1- 4	25	Y				21
A 7Y			P1- 10	10	N		14		1	A1- 12	25	Y				21
A 8	2			250		225	11	8A			300		275	9	7A	
A 8A	7		SHLD A8	25	Y					E2	25	N				2
A 8R			P1- 80	10	N		14		1	T1- 1	25	Y				22
A 8Y			P1- 69	10	N		14		1	T1- 2	25	Y				22
A 9	4		S 4-3-NO	25	Y				26	T1- 1	25	Y				22

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE - NONE | REV LTR + | SHEET 7

MIL 2085-4-64 WIR

G+N HARNESS

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014665- 1	WIRE PER 1010789-011 YEL JKT 24AWG YEL. 2 FT 11.5 IN TOTAL LENGTH
	2	1	1014665- 2	WIRE PER 1010789-012 YEL JKT 24AWG YEL, RED. 4 FT 3.5 IN TOTAL LENGTH
	3	1	1014665- 3	WIRE PER 1010789-004 24AWG YEL, RED, GRN. 4 FT 7 IN TOTAL LENGTH
	4	1	1014665- 4	WIRE PER 1010789-001 24AWG YEL. 112 FT 3.8 IN TOTAL LENGTH
	5	1	1014665- 5	WIRE PER 1010789-006 22AWG YEL. 1 FT 0.5 IN TOTAL LENGTH
	6	1	1014665- 6	WIRE PER 1010789-003 24AWG YEL, RED. 13 FT 1 IN TOTAL LENGTH
	7	1	1014665- 7	WIRE PER 1010789-002 24AWG BLK. 2 FT 6 IN TOTAL LENGTH
	9	3	1010476-168	Insulation Sleeving Heat Shrink
	10	2	1010402- 1	SOLDER SLEEVE
	11	4	1010402- 2	SOLDER SLEEVE
	12	2	1010476-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010490-112	INSULATION SLEEVING HEAT SHRINK (WHITE)
	14	108	1010738- 1	CONTACT ELECTRICAL
	15	1	1010825- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571 SN60 WRAP 2	SOLDER (ES-2175 ALLOY 1)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE - NONE | REV LTR | SHEET 5

MIL 2084-4-64

G+N HARNESS

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET ▷2	FROM T I N	FROM CUT WIRE OR SHIELD ▷2	FROM TERMINATION ITEM NO.	FROM TERMINATION SPEC. ▷1	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET ▷2	TO T I N	TO CUT WIRE OR SHIELD ▷2	TO TERMINATION ITEM NO.	TO TERMINATION SPEC ▷1	TO NO.
A 10	4		S 3-1-NC	25	Y				47	T1- 7	25	Y				22
A 11	4		S 3-1-NO	25	Y				47	T1- 5	25	Y				22
A 12	4		A1- 8	25	Y				21	S12-2-C	25	Y				24
A 13	4		P1- 1	10	N		14		1	S15-1-C	25	Y				30
A 14	4		P1- 92	10	N		14		1	S16-7-C	25	Y				39
A 15	4		S16-1-NC	10	N				38	S16-6-C	25	Y				39
A 16	4		P1- 90	10	N		14		1	S16-4-C	25	Y				38
A 17	4		P1-100	10	N		14		1	S16-3-C	25	Y				38
A 18	4		P1- 88	10	N		14		1	S16-1-NC	25	Y				38
A 19	4		P1- 87	10	N		14		1	S16-2-NC	25	Y				38
A 20	4		P1-101	10	N		14		1	S16-3-NC	25	Y				38
A 21	4		P1- 94	10	N		14		1	S16-4-NC	25	Y				38
A 22	4		P1- 74	10	N		14		1	S16-8-NC	25	Y				39
A 23	4		P1- 76	10	N		14		1	S16-5-NC	25	Y				39
A 24	4		P1- 75	10	N		14		1	S16-6-NC	25	Y				39
A 25	4		P1-105	10	N		14		1	S16-7-NC	25	Y				39
A 26	4		P1- 2	10	N		14		1	S12-1-NC	25	Y				24
A 27	4		P1- 14	10	N		14		1	S 1-3-NC	25	Y				44

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014665
SCALE - NONE | REV LTR + | SHEET 8

MIL 2085-4-64 WIR

G+N HARNESS

CONDUCTOR			FROM							TO						
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.
A 46	4		S11- 2-C	25	Y				27	S11- 4-C	25	Y				28
A 47	4		S11- 3-C	25	Y				27	S15-1-C	25	Y				30
A 48	4		P1- 43	10	N		14		1	S26-2-C	25	Y				7
A 49	4		P1- 72	10	N		14		1	S11-1-NC	25	Y				27
A 50	4		S16-4-C	25	Y				38	S16-5-C	25	Y				39
A 51	4		S11- 3-NO	25	Y				27	S12-1-C	25	Y				24
A 52	4		S 9-5-NO	25	Y				35	S20-3-C	25	Y				32
A 53	2			250		225	11	8A			250		225	9	7A	
A 53A	7		SHLD A53	25	Y					E2	25	N				2
A 53R			P1- 95	10	N		14		1	S 9-1-C	25	Y				34
A 53Y			P1- 81	10	N		14		1	S 9-1-NO	25	Y				34
A 54	4		S11-4-C	25	Y				28	S 4-2-C	25	Y				26
A 55	4		S 9-4-C	25	Y				34	S20-1-NC	25	Y				32
A 56	4		S 9-5-C	25	Y				35	S20-4-NC	25	Y				32
A 57	4		S 9-8-NO	25	Y				35	S20-2-NC	25	Y				32
A 58	6					A	19						T	19		
A 58R			P1- 54	10	N		14		1	S17-1-NC	25	Y				45
A 58Y			P1- 84	10	N		14		1	S17-2-NC	25	Y				45

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665	
SCALE - NONE	REV LTR +		SHEET 10

MIL 2085-4-64 WIR

G+N HARNESS

CONDUCTOR			FROM							TO						
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.
A 59	6					A	19						T	19		
A 59R			P1- 34	10	N		14		1	S12-3-NO	25	Y				24
A 59Y			P1- 35	10	N		14		1	S12-3-C	25	Y				24
A 60	6					T	19						T	19		
A 60R			S17-1-NC	25	Y				45	S12-4-NC	25	Y				24
A 60Y			S17-2-NC	25	Y				45	S12-4-NO	25	Y				24
A 61	4		S20-1-C	25	Y				32	S 9-4-NO	25	Y				34
A 62	4		S12-4-C	25	Y				24	XDS12-HI	25	Y				23
A 63	4		P1- 11	10	N				1	R1-2-CCW	25	Y				49
A 64	6					T	19						T	19		
A 64R			XDS 4-HI	25	Y				20	XDS 3-HI	25	Y				5
A 64Y			XDS 4-LO	25	Y				20	XDS 3-LO	25	Y				5
A 65	4		P1- 40	10	N		14		1	S10- 5	25	Y				6
A 66	4		P1- 52	10	N		14		1	XDS12-LO	25	Y				23
A 67	4		P1- 61	10	N		14		1	S17-1-C	25	Y				45
A 68	5		P1- 83	10	N		14		1	E2	25	Y		11		2
A 69	4		S 1-1-C	25	Y				44	S18-3-NC	25	Y				31
A 70	5		P1- 91	10	N		14		1	E1	25	Y		18		3

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665	
SCALE - NONE	REV LTR +		SHEET 11

MIL 2085-4-64 WIR

G+N HARNESS

CONDUCTOR			FROM							TO						
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.
A 28	4		P1- 15	10	N		14		1	S 1-3-C	25	Y				44
A 29	4		P1- 33	10	N		14		1	S26-1-NO	25	Y				7
A 30	4		S 4-3-NO	25	Y				26	S 3-2-NO	25	Y				47
A 31	4		P1- 45	10	N		14		1	S 4-3-C	25	Y				26
A 32	4		P1- 47	10	N		14		1	S11- 2-C	25	Y				27
A 33	4		P1- 48	10	N		14		1	S11- 2-NC	25	Y				27
A 34	4		P1- 49	10	N		14		1	S11- 4-NC	25	Y				28
A 35	4		P1- 70	10	N		14		1	S11- 3-NC	25	Y				27
A 36	4		P1- 71	10	N		14		1	S11- 5-C	25	Y				28
A 37	4		S4-2-C	25	Y				26	S26-1-C	25	Y				7
A 38	4		P1- 82	10	N		14		1	S15-1-NC	25	Y				30
A 39	4		S11- 1-C	25	Y				27	S14-2-C	25	Y				25
A 40	4		P1-108	10	N		14		1	S11- 5-NC	25	Y				28
A 41	4		P1- 96	10	N		14		1	S 4-1-NO	25	Y				26
A 42	4		S 2-1-C	25	Y				19	S17-2-C	25	Y				45
A 43	4		S 4-1-C	25	Y				26	S11- 5-C	25	Y				28
A 44	4		S13-1-C	25	Y				8	S14-2-C	25	Y				25
A 45	4		S11- 1-C	25	Y				27	S11- 3-C	25	Y				27

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665	
SCALE - NONE	REV LTR +		SHEET 9

MIL 2085-4-64 WIR

G+N HARNESS

CONDUCTOR			FROM							TO						
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.
A 71	4		S19-1-C	25	Y				10	S19-2-C	25	Y				13
A 72	3					A	13						T	13		
A 72G			P1- 18	10	N		14		1	S19-2-C	25	Y	200			14
A 72R			P1- 5	10	N		14		1	S19-2-NO	25	Y	190			14A
A 72Y			P1- 4	10	N		14		1	S19-1-NO	25	Y				9
A 73	4		XDS12-LO	25	Y				23	XDS 4-LO	25	Y				20
A 74	4		S 2-1-NC	25	Y				19	XDS 4-HI	25	Y				20
A 75	4		P1- 32	10	N		14		1	S25-1-NO	25	Y				46
A 76	4		S25-1-NO	25	Y				46	R1-1-CW	25	Y				49
A 77	4		P1- 44	10	N		14		1	R1-1-CCW	25	Y				49
A 78	4		P1- 26	10	N		14		1	S25-1-C	25	Y				46
A 79	4		S19-4-C	25	Y				18	S19-3-C	25	Y				11
A 80	3					A	13						T	13		
A 80G			P1- 6	10	N		14		1	S19-4-NO	25	Y				17
A 80R			P1- 20	10	N		14		1	S19-3-NO	25	Y	300			11
A 80Y			P1- 7	10	N		14		1	S19-3-C	25	Y	300			11
A 81	4		S19-5-C	25	Y				16	S19-6-C	25	Y				12
A 82	3					A	13						T	13		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014665	
SCALE - NONE	REV LTR +		SHEET 12

MIL 2085-4-64 WIR

G+N HARNESS

CONDUCTOR			FROM							TO							
NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 82G			P1- 17	10	N		14		1	S19-6-NO	25	Y	150			12	
A 82R			P1- 3	10	N		14		1	S19-5-NO	25	Y				15	
A 82Y			P1- 16	10	N		14		1	S19-6-C	25	Y	150			12	
A 83	4		S 7-2-NO	25	Y				40	S23-1-C	25	Y				41	
A 84	4		S 7-1-NO	25	Y				40	S 8-1-C	25	Y				42	
A 85	4		P1-104	10	N		14		1	S 7-1-NC	25	Y				40	
A 86	4		P1-103	10	N		14		1	S 8-1-NC	25	Y				42	
A 87	4		P1- 41	10	N		14		1	S10- 1	25	Y				6	
A 88	4		P1- 50	10	N		14		1	S10- 3	25	Y				6	
A 89	4		P1-102	10	N		14		1	S23-1-NC	25	Y				41	
A 90	4		P1- 98	10	N		14		1	S 7-1-C	25	Y				40	
A 91	4		P1- 97	10	N		14		1	S 8-1-NO	25	Y				42	
A 92	4		P1- 89	10	N		14		1	S 7-2-NC	25	Y				40	
A 93	4		P1- 73	10	N		14		1	S 1-1-NC	25	Y				44	
A 94	4		P1- 86	10	N		14		1	S23-1-NO	25	Y				41	
A 95	4		S 5-1-NO	25	Y				4	S25-1-C	25	Y				46	
A 96	4		P1- 85	10	N		14		1	S 7-2-C	25	Y				40	
A 97	4		P1-106	10	N		14		1	S20-2-NO	25	Y				32	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014665
SCALE - NONE
REV LTR +
SHEET 13

MIL 2088-4-64 WIR

G+N HARNESS

CONDUCTOR			FROM							TO							
NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 98	4		P1- 93	10	N		14		1	S21-3-NO	25	Y				33	
A 99	1			250		225	10	8A			225		200	12	7A		
A 99A	7		SHLD A99	25	Y					E2	25	N				2	
A 99Y			P1- 68	10	N		14		1	S20-4-C	25	Y				32	
A 100	4		P1- 79	10	N		14		1	S21-3-C	25	Y				33	
A 101	4		P1- 78	10	N		14		1	S20-2-C	25	Y				32	
A 102	4		P1- 58	10	N		14		1	S14-1-NC	25	Y				25	
A 103	4		P1- 59	10	N		14		1	S14-1-NO	25	Y				25	
A 104	4		P1- 67	10	N		14		1	S 9-8-C	25	Y				35	
A 105	2			350		325	11	8B			350		325	9	7A		
A 105A	7		SHLD A105	25	Y					E2	25	N				2	
A 105R			P1- 55	10	N		14		1	S18-2-NO	25	Y				31	
A 105Y			P1- 46	10	N		14		1	S18-2-NC	25	Y				31	
A 106	1			350		325	10	8B			350		325	12	7A		
A 106A	7		SHLD A106	25	Y					E2	25	N				2	
A 106Y			P1- 53	10	N		14		1	S18-1-NC	25	Y				31	
A 107	6					A	19						T	19			
A 107R			P1- 77	10	N		14		1	S 9-7-NO	25	Y	300			35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014665
SCALE - NONE
REV LTR +
SHEET 14

MIL 2088-4-64 WIR

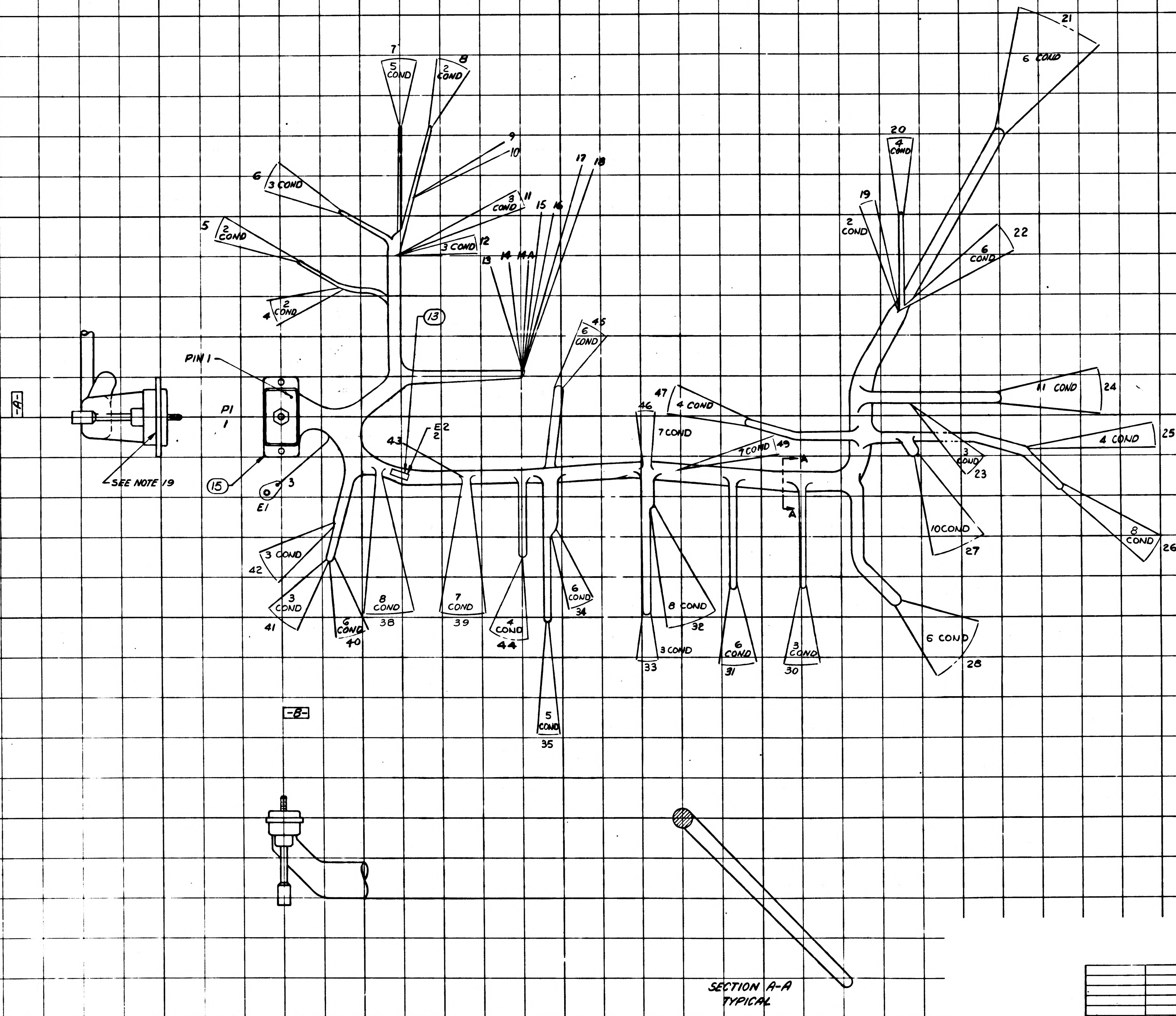
G+N HARNESS

CONDUCTOR			FROM							TO							
NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 107Y			P1- 65	10	N		14		1	S 9-2-NO	25	Y				34	
A 108	4		P1- 51	10	N		14		1	S18-3-NC	25	Y				31	
A 109	4		S18-3-C	25	Y				31	S21-1-C	25	Y				33	
A 110	4		P1- 66	10	N		14		1	S 9-2-C	25	Y				34	
A 111	4		P1- 30	10	N		14		1	S26-1-NC	25	Y				7	
A 112	4		P1- 12	10	N		14		1	R1-2-WIPER	25	Y				49	
A 113	4		P1- 13	10	N		14		1	R1-2-CW	25	Y				49	
A 114	4		R1-2-CW	25	Y				49	S24-1-NC	25	Y				46	
A 115	4		R1-2-CCW	25	Y				49	S24-1-C	25	Y				46	
A 116	4		S24-1-NC	25	Y				46	S 5-1-C	25	Y				4	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014665
SCALE - NONE
REV LTR +
SHEET 15

MIL 2088-4-64 WIR


-A-
-B-
PIN 1
P1
1
SEE NOTE 19
15
13
E1
3
E2
2
43
5 COND
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2 COND
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4 COND
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7 COND
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4 COND
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2 COND
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22
6 COND
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3 COND
30
SECTION A-A
TYPICAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+	+	+
−	−	−

DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS-9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN John Kosa DATE 8-14-64
CHECKED Boehme 9/26/64
APPROVAL
APPROVAL
NASA APPROVAL
M.I.T APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO
SIZE E
1014665
SCALE 1/1
SHEET 16 OF 16

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-081	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-021	1015056-021	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007256-021	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007257-041	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-031	1016885-031	1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-041	1016903-041	1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1003572-011	1003572-011	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's						171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175, 25, 83, 160, 219,	20, 63, 96, 177, 25, 116, 160	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	75, 80, 69, 74, 2, 246, 232, 240, 265, 225, 267	75, 123, 180, 69, 74, 211, 246, 232, 240, 265, 225, 267,	175, 123, 180, 183, 184, 187, 189, 174, 211, 246, 232, 265, 225, 267	175, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 219, 232, 240, 265, 267	175, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 232, 225	175, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267	84, 180, 130, 137, 246, 251, 232,	180, 165, 169, 232, 84, 130, 240, 250, 80, 137, 174, 211, 246, 265, 277	246, 111, 171, 114, 175, 130, 80, 109, 147, 159, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR C6407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/4/65	
J		REVISED PER TDRR 23203			10/13/65	
K		REVISED PER TDRR 23259			10/18/65	
L		REVISED PER TDRR 23502			10/20/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	
AA		REVISED PER TDRR 26318	RAJ		2-15-66	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED 15 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-081	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	56	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP			73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5		70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-021	1015056-021	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL			65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007256-021	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007257-041	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-031	1016885-031	1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-041	1016903-041	1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1003572-011	1003572-011	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's				17.		171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 88, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175, 25, 83, 160, 219,	20, 63, 96, 177, 25, 116, 160	2, TD203	2, CO17	2, 9, 6	6, 25					
OUTSTANDING ECP's	175, 180, 169, 174, 211, 246, 232, 240, 265, 225, 267	175, 123, 180, 169, 174, 211, 246, 232, 240, 265, 225, 267,	175, 123, 180, 182, 183, 184, 187, 189, 69, 174, 211, 246, 232, 240, 265, 225, 267	175, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 219, 232, 240, 265, 225, 267	175, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 232, 225	175, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267	84, 180, 130, 137, 246, 251, 232,	180, 165, 169, 232, 84, 130, 240, 250, 80, 137, 174, 211, 246, 265, 277	246, 111, 171, 114, 175, 130, 80, 109, 147, 159, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

F-1

REVISIONS C6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22984			[illegible]	WK
J		REVISED PER TDRR 23205			[illegible]	WK
K		REVISED PER TDRR 23259			[illegible]	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	[illegible]
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	[illegible]
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		[illegible]	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-8-66	[illegible]

								1026009 REV –		1026010 REV –					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV –		1026005 REV –					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV –		1026008 REV –					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV –		1026007 REV –					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV –		1026006 REV –					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
FIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R A Jones
CHECKED
APPROVED
APPROVED D HOAG
APPROVED MIT
A. C. METZGER
APPROVED MSC

DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

MASTER

F2

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FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

								1026009 REV –		1026010 REV –					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	5	121
								1026004 REV –		1026005 REV –					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	5	20
								1026003 REV –		1026008 REV –					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	5	119
								1026002 REV –		1026007 REV –					1	G&N POLARITY TEST	SEE NOTE 10	5	118
								1026001 REV –		1026006 REV –					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	5	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9	—	116
								2018898							1	WIRING HARNESS		—	115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		—	114
								1010705 8							1	CLAMP LOOP		—	113
								1010705 - 6							1	CLAMP LOOP		—	112
								1010705 - 5							1	CLAMP LOOP		—	111
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

F-1

QTY REQD

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μF
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-007	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-021	1015056-021	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007256-021	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007257-041	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-031	1016885-031	1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-041	1016903-041	1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1003572-011	1003572-011	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S				7		171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175, 25, 83, 160, 219,	20, 63, 96, 177, 25, 116, 160	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP'S	75, 268, 80, 69, 74, 246, 232, 240, 265, 225, 26, 243	175, 268, 23, 180, 169, 74, 243, 246, 232, 240, 265, 225, 267,	175, 268, 123, 180, 183, 184, 187, 189, 74, 211, 246, 232, 265, 225, 267, 243	175, 268, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 219, 232, 240, 265, 267, 243	175, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 232, 225	175, 268, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267, 268, 243	84, 180, 130, 137, 246, 251, 232,	180, 165, 169, 232, 268, 84, 130, 240, 250, 80, 137, 174, 211, 246, 265, 277	246, 111, 171, 114, 175, 130, 80, 109, 147, 159, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 06407					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]
J		REVISED PER TDRR 23208			[illegible]
K		REVISED PER TDRR 23259			[illegible]
L		REVISED PER TDRR 23502			10/26/65
M		REVISED PER TDRR 23620	RAJ		11-2-65
N		REVISED PER TDRR 23926	RAJ		11-9-65
P		REVISED PER TDRR 24056	RAJ		11-18-65
R	Ⓐ	REVISED PER TDRR 24370	RAJ		12-3-65
S		REVISED PER TDRR 2[illegible]	RAJ		12-6-65
T		REVISED PER TDRR 24674	RAJ		12-13-65
U		REVISED PER TDRR 24792	RAJ		12-20-65
V		REVISED PER TDRR 24938	RAJ		12-28-65
W		REVISED PER TDRR 25324	RAJ		1-17-66
Y		REVISED PER TDRR 25525	RAJ		1-28-66
Z		REVISED PER TDRR 25812	RAJ		2-7-66
AA		REVISED PER TDRR 26318	RAJ		2-15-66
AB		REVISED PER TDRR 26620	"		2-23-66

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

F-2

MASTER

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED 15 Sept
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED 15 Sept
MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET OF 2

[illegible]

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-021	1015056-021	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007256-021	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007257-041	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-031	1016885-031	1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-041	1016903-041	1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1003572-011	1003572-011	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S						171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175, 25, 83, 160, 219,	20, 63, 96, 177, 25, 116, 160	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP'S	175, 268, 180, 169, 174, 246, 232, 240, 265, 225, 267, 243	175, 268, 123, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267,	175, 268, 123, 180, 182, 183, 184, 187, 189, 169, 174, 211, 246, 232, 240, 265, 225, 267, 243	175, 268, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 219, 232, 240, 265, 225, 267, 243	175, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 232, 225	175, 268, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267, 268, 243	84, 180, 130, 137, 246, 251, 232,	180, 165, 169, 232, 268, 84, 130, 240, 250, 80, 137, 174, 211, 246, 265, 277	246, 111, 171, 114, 175, 130, 80, 109, 147, 159, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 225	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

MASTER

ND 1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

QTY REQD
DRAWN
CHECKED
APPROVED
APPROVED
APPROVAL M.I.T.
APPROVED NASC

REVISIONS 06407

SYM	ZONE	DESCRIPTION	BY	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	WK
J		REVISED PER TDRR 23205			[illegible]	WK
K		REVISED PER TDRR 23259			[illegible]	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	[illegible]
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		[illegible]	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

F-2

MASTER

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
56	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111

F 1

QTY REQD

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED NASC

	-121 124	-121 123	-111 122	-101 121	-071 109	-091 111	-081 110	-051 17	-041 12	-061 20	-031 8	-021 7	-011 6	-000 5	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-5	1010400-7	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-021	1015056-021	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-051	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-031	1007256-021	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-021	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-031	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-051	1007257-041	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-061 (3)							2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (2)	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-031	1016885-031	1016918-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-051	1016903-041	1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005785-011	1003572-011	1003572-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003569-021	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003565-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-181	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
…ATED				171		171	171	2584, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175, 25, 83, 160, 219,	20, 63, 96, 177, 25, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184	2, TD203	2, CO17	2, 9, 6	6, 25					
…ING	175, 268, 80, 69, 4, 246, 232, 240, 265, 225, 267, 243, 206, 266	175, 268, 123, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266	175, 268, 123, 180, 182, 183, 184, 187, 189, 169, 174, 211, 246, 232, 240, 265, 225, 267, 243, 206, 266	175, 268, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 219, 232, 240, 265, 225, 267, 243, 206, 266	175, 206, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 232, 225	175, 268, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267, 268, 243, 206	206, 130, 232,	180, 165, 169, 232, 268, 84, 130, 240, 250, 80, 137, 174, 211, 246, 265, 277, 253, 206, 266	246, 206, 175, 130, 80, 159, 180, 169, 174	175, 109, 111, 114, 130, 147, 224	111, 114	25						

SYM	ZONE	REVISIONS TDRR C 6437 DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23208			10/12/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-29-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	WK
AD		REVISED PER TDRR 26866	"		3-8-66	WK

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones
CHECKED 15 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED 15 Sept 65
APPROVED
MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

MASTER

1014999

E-2

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

								1010705 - 4							1	CLAMP LOOP			[illegible]
								1010400 - 9							1	CLAMP, HINGED LOOP			[illegible]
								1010400 - 4							2	CLAMP, HINGED LOOP			[illegible]
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			[illegible]
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		[illegible]
															1	FLIGHT-DATA BOOK		55	[illegible]
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	[illegible]
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	[illegible]
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	[illegible]
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	[illegible]
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	[illegible]
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 5	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	[illegible]
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	[illegible]
															1	LENS CLEANING KIT		55	[illegible]
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	[illegible]
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	[illegible]
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	[illegible]
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	[illegible]
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	[illegible]
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	[illegible]
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	[illegible]
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	[illegible]
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	[illegible]
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	[illegible]
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	[illegible]
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	[illegible]
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	[illegible]
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	[illegible]
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	[illegible]
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	[illegible]
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	[illegible]
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	[illegible]
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	[illegible]
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	[illegible]
	1899950 - 141	1899950 - 141	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	[illegible]
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	[illegible]
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	[illegible]
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	71
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	[illegible]
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	[illegible]
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	[illegible]
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	[illegible]
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 021	1015056 - 021	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	[illegible]
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	[illegible]
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	[illegible]
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	[illegible]
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	[illegible]
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	[illegible]
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	[illegible]
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	[illegible]
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 051	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	[illegible]
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	[illegible]
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 031	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	[illegible]
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	[illegible]
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	[illegible]
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 031	1007256 - 021	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1°	TRAY 10		45	[illegible]
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	[illegible]
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	[illegible]
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	[illegible]
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	[illegible]
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 021	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	[illegible]
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	[illegible]
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 031	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	[illegible]
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 051	1007257 - 041	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	[illegible]
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	[illegible]
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	[illegible]
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 061 (3)							2	CDU ASSY		40	[illegible]
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (2)	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	[illegible]
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	[illegible]
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 031	1016885 - 031	1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	[illegible]
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 051	1016903 - 041	1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	[illegible]
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	[illegible]
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	[illegible]
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	[illegible]
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005785 - 011	1003572 - 011	1003572 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	[illegible]
	1003707 - 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003564 - 021	1003569 - 021	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	[illegible]
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	[illegible]
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	[illegible]
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	[illegible]
	1003706 - 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	[illegible]
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	[illegible]
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	[illegible]
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	[illegible]
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	[illegible]
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	[illegible]
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735 *	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	[illegible]
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	[illegible]
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	[illegible]
														1003457	1	AGC CONN COVER PLATE		5	[illegible]
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	[illegible]
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	[illegible]
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	[illegible]
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	[illegible]
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	[illegible]
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	[illegible]
	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 061	1003565 - 011	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	[illegible]
	1003770 - 091	1003770 - 091	1003770 - 081	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 101	1003770 - 131	1003770 - 131	1003770 - 181	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	
INCORPORATED ECP's				171		171	171	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175, 25, 83, 160, 219,	20, 63, 96, 177, 25, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 268, 180, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 266	175, 268, 123, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266	175, 268, 123, 180, 182, 183, 184, 187, 189, 169, 174, 211, 246, 232, 240, 265, 225, 267, 243, 206, 266	175, 268, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 219, 232, 240, 265, 225, 267, 243, 206, 266	175, 206, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 232, 225	175, 268, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267, 268, 243, 206	206, 130, 232,	180, 165, 169, 232, 268, 84, 130, 240, 250, 80, 137, 174, 211, 246, 265, 277, 253, 206, 266	246, 206, 175, 130, 80, 159, 180, 169, 174	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

REVISIONS 064C7						
SYM	ZONE	DESCRIPTION	BY	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	

								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
ON DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
A. C. METZ
APPROVED NASA
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

MASTER

F-2

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	[illegible]
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	[illegible]
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	[illegible]
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	[illegible]
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	[illegible]
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	[illegible]
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	[illegible]
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		[illegible]
								2018898							1	WIRING HARNESS			[illegible]
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			[illegible]
								1010705 8							1	CLAMP LOOP			[illegible]
								1010705 -6							1	CLAMP LOOP			[illegible]
								1010705 -5							1	CLAMP LOOP			[illegible]
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-5	1010400-5	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-091	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1°	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-061 (3)							2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-041	1001500-041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005785-011	1005785-011	1003572-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003569-021	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003565-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-181	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S				171		171	171	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180	20, 63, 96, 177, 25, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP'S	75, 268, 80, 69, 74, 290, 246, 232, 240, 265, 225, 267, 243, 206, 266, 269, 270	175, 268, 123, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266, 269, 270, 290	175, 268, 123, 180, 182, 183, 184, 187, 189, 169, 174, 211, 246, 232, 240, 265, 225, 267, 243, 206, 266, 219, 269, 270, 290	269, 270, 290, 175, 268, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 219, 232, 240, 265, 225, 267, 243, 206, 266	175, 206, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290	175, 268, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 269, 270, 290	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267, 268, 243, 206, 269, 270, 290	130 206 290	169, 80, 174, 206, 290	246, 206, 219, 175, 130, 159, 290, 80, 180, 169, 174	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 26407					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/8/65	WK
J		REVISED PER TDRR 23203			10/12/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R	Ⓐ	REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	WK
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 1000000

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E.A. Jones
CHECKED
APPROVED
APPROVED D. Hoag PER TDRR
APPROVED

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999

SCALE — | SHEET 1 OF 2

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	−121	−121	−111	−101	−071	−091	−081	−051	−041	−061	−031	−021	−011	−000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 141	1899950 - 141	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 091	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G & N PANEL		50	66
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G & N PANEL		50	65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 031	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 061 (3)							2	CDU ASSY		40	40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 041	1001500 - 041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005785 - 011	1005785 - 011	1003572 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707 - 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003564 - 021	1003569 - 021	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 061	1003565 - 011	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 081	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 101	1003770 - 131	1003770 - 131	1003770 - 181	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's				171		171	171	25, 84, 77, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180	20, 63, 96, 177, 25, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 268, 180, 169, 174, 290, 246, 232, 240, 265, 225, 267, 243, 206, 266, 269, 270,	175, 268, 123, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266, 269, 270, 290	175, 268, 123, 180, 182, 183, 184, 187, 189, 169, 174, 211, 246, 232, 240, 265, 225, 267, 243, 206, 266, 219, 269, 270, 290	269, 270, 290, 175, 268, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 74, 246, 219, 232, 240, 265, 225, 267, 243, 206, 266	175, 206, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290,	175, 268, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 269, 270, 290	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267, 268, 243, 206, 265, 270, 290	130 206 290	169, 80, 174, 206, 290	246, 206, 219, 175, 130, 290, 80, 159, 180, 169, 174	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	−121	−121	−111	−101	−071	−091	−081	−051	−041	−061	−031	−021	−011	−000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

ND 1000000
NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LABORATORY
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED D. Hoag
APPROVED

PART OR IDENTIFYING NO.

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/6/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23630	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	WK
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27125			3-15-66	WK

ION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1021289-1						6	SCREW, CAP SOC HD CAPTIVE		40	160
									1021289-2						5	SCREW, CAP SOC HD CAPTIVE		40	159
									NAS 1352C02LL6						7	SCREW, CAP SOC HD		40	158
									NAS 1352C04LL6						30	SCREW, CAP SOC HD		40	157
									1021305						10	SEAL, CONNECTOR		40	156
									1021299						1	PANEL (INSEP. ASSY)		40	155
									1021303-011						1	FRAME MACHINING ASSY		40	154
															2	CDU ASSEMBLY		40	153
									1015500-041 (5)						3	CDU ASSEMBLY		40	152
									1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
									1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
																			149
																			148
																			147
																			146
																			145
																			144
																			143
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																			127
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																			125
																			124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

MASTER

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FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
5	CASE AND PANEL ASSY CDU	154 THRU 160
50	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQU P. CODE	FIND NO.
									1021289-1						6	SCREW, CAP SOC HD CAPTIVE		40	160
									1021289-2						5	SCREW, CAP SOC HD CAPTIVE		40	159
									NAS 1352C02LL6						7	SCREW, CAP SOC HD		40	158
									NAS 1352C04LL6						30	SCREW, CAP SOC HD		40	157
									1021305						10	SEAL, CONNECTOR		40	156
									1021299						1	PANEL (INSEP. ASSY)		40	155
									1021303-011						1	FRAME MACHINING ASSY		40	154
															2	CDU ASSEMBLY		40	153
									1015500-041 (5)						3	CDU ASSEMBLY		40	152
									1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
									1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
																			149
																			148
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																			125
																			124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	5	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	5	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	5	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	5	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	5	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	5	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	5	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

QTY REQD

INSTRUMENTATION

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-5	1010400-5	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-091	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G & N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G & N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-061 (3)							2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-041	1001500-041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005785-011	1005785-011	1003572-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003569-021	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003565-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-181	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
CORPORATED ECP'S				171		171	171	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 26, 277, 211, 165, 250, 253, 268, 266, 180	20, 63, 96, 177, 25, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
UTSTANDING ECP'S	175, 268, 80, 69, 74, 290, 246, 232, 240, 265, 225, 267, 243, 206, 266, 269, 270, 234	175, 268, 123, 180, 69, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266, 269, 270, 290, 234	234, 295, 175, 268, 123, 180, 182, 183, 184, 187, 189, 169, 174, 211, 246, 232, 240, 265, 225, 267, 243, 206, 266, 219, 269, 270, 290	295, 269, 270, 290, 234, 252, 175, 268, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 219, 232, 240, 265, 225, 267, 243, 206, 266	175, 206, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 234, 252, 295	234, 252, 295, 175, 268, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 269, 270, 290	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267, 268, 243, 206, 269, 270, 290, 234, 285	130, 206, 290, 234	234, 169, 80, 174, 206, 290	246, 206, 175, 130, 290, 80, 234, 159, 180, 169, 174	175, 109, 111, 114, 130, 147, 224, 234	234, 111, 114	25, 234	234					
FIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
& N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704				
J		REVISED PER TDRR 23208				
K		REVISED PER TDRR 23289				
L		REVISED PER TDRR [illegible]				
M		REVISED PER TDRR 23520			11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24156	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR [illegible]	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-29-65	
W		REVISED PER TDRR 25347	RAJ		[illegible]	
Y		REVISED PER TDRR 25525	RAJ		[illegible]	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	
AA		REVISED PER TDRR 26318	RAJ		2-15-66	
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26966	"		3-8-66	
AE		REVISED PER TDRR 27175	"		3-15-66	
AF		REVISED PER TDRR 27353	"		3-22-66	

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 50 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT MAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 1010000

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999

SHEET 1 OF 2

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		56	100
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-5	1010400-5	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-091	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-061 (3)							2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-041	1001500-041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005785-011	1005785-011	1003572-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	56	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003569-021	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003565-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-181	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's				171		171	171	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 254, 266, 232	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180	20, 63, 96, 177, 25, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184	2, TD203	2, CO 17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 268, 180, 169, 174, 290, 246, 232, 240, 265, 225, 267, 243, 206, 266, 269, 270, 234	175, 268, 123, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266, 269, 270, 290, 234	234, 295, 175, 268, 123, 180, 182, 183, 184, 187, 189, 169, 174, 211, 246, 232, 240, 265, 225, 267, 243, 206, 266, 219, 269, 270, 290	295, 269, 270, 290, 234, 252, 175, 268, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 219, 232, 240, 265, 225, 267, 243, 206, 266	175, 206, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 234, 252, 295	234, 252, 295, 175, 268, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 269, 270, 290	175, 232, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 240, 265, 225, 267, 268, 243, 206, 269, 270, 290, 234, 285	130, 206, 290, 234	234, 169, 80, 174, 206, 290	246, 206, 175, 130, 290, 80, 234, 159, 180, 169, 174	175, 109, 111, 114, 130, 147, 224, 234	234, 111, 114	25, 234	234					
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 60 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY USED ON
APPLICATION

QTY REQD

DRAWN
CHECKED
APPROVED
APPROVED

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53

15
66
96
73
42
30
24
VOVED
PING AND/
LLATION

REVISIONS 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25224	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	WK
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK

CONFIGURATION IN SH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1021289-1						6	SCREW, CAP SOC HD CAPTIVE		40	160
									1021289-2						5	SCREW, CAP SOC HD CAPTIVE		40	159
									NAS 1352C02LL6						7	SCREW, CAP SOC HD		40	158
									NAS 1352C04LL6						30	SCREW, CAP SOC HD		40	157
									1021305						10	SEAL, CONNECTOR		40	156
									1021299						1	PANEL (INSEP. ASSY)		40	155
									1021303-011						1	FRAME MACHINING ASSY		40	154
															2	CDU ASSEMBLY		40	153
									1015500-041 (5)						3	CDU ASSEMBLY		40	152
									1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
									1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
																			148
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								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. E. Jones
CHECKED D. J. Lingo
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

MASTER

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

TABLE I (SEE NOTE 4)

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
5	CASE AND PANEL ASSY CDU	154 THRU 160
50	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1021289-1						6	SCREW, CAP SOC HD CAPTIVE		4	160
									1021289-2						5	SCREW, CAP SOC HD CAPTIVE		4	159
									NAS1352C02LL6						7	SCREW, CAP SOC HD		4	158
									NAS1352C04LL6						30	SCREW, CAP SOC HD		4	157
									1021305						10	SEAL, CONNECTOR		4	156
									1021299						1	PANEL (INSEP. ASSY)		4	155
									1021303-011						1	FRAME MACHINING ASSY		4	154
															2	CDU ASSEMBLY		4	153
									1015500-041 (5)						3	CDU ASSEMBLY		4	152
									1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	4	151
									1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	4	150
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11		149
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																			124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	5	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	5	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	5	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	5	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	5	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	5	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	5	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN
TOLERANCES ON
FRACTIONS DECIMALS
± ±
DO NOT SCALE THIS DRAWING
MATERIAL

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-5	1010400-5	1010400-7	1010400-5	1010400-7	1010400-5	1010400-5	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-131	1899950-081	1899950-071	1899950-071	1899950-031	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
		1014609			1014609	1014609					1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
		1010400-8			1010400-8	1010400-8					1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
		1010400-7			1010400-7	1010400-7					1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400-3	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
		1010400-2			1010400-2	1010400-2					1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
		1010400-1			1010400-1	1010400-1					1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086	1015086-011	1015086-011	1015086	1015086	1015086-011	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	2014764-021	2014764-021	1023002-002	1023002-002	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL		50	66
	1023002-001	1023002-001	2014764-011	2014764-011	1023002-001	1023002-001	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-021	1014502-021	1014502-011	1014502-011	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-021	1014628-021	1014628-011	1014628-011	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-091	1015065-091	1015065-041	1015065-041	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-021	1014664-021	1014664-011	1014664-011	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
		AN 365D-440			AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
		1016889			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
		1015500-031			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
		1015500-021 (3)			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
		1017538-021			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
		1016885-021			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
		1016903-031			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-081	1001500-041	1001500-041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1004866-011	1004866-011	1005727	1004866-011	1005707-021	1005785-011	1005785-011	1003572-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003569-021	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003565-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-181	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's	225, 267, 270, 234	234	234, 80, 225, 240, 243, 246, 267, 270, 265	171, 60, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246	234	171, 234, 180	171, 234, 206, 246, 240, 265, 225, 262, 268, 243, 266, 269, 270	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	[illegible] 268, 180, 169, [illegible] 246, 232, [illegible] 265, 202, 209, 243, [illegible] 266, 269,	175, 268, 123, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266, 269, 270, 290, 202, 209	252, 295, 202, 209, 175, 268, 123, 182, 183, 184, 187, 189, 169, 174, 211, 232, 206, 266, 219, 269, 290	202, 295, 209, 269, 290, 252, 175, 268, 80, 123, 182, 183, 184, 187, 189, 207, 169, 174, 232, 266	175, 206, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 202, 252, 295	202, 252, 295, 209, 175, 268, 211, 80, 123, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 269, 270, 290	175, 232, 202, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 209, 290, 285	130, 290	169, 80, 174, 202, 290	246, 206, 202, 175, 328, 290, 80, 180, 174, 159	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR C6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	
J		REVISED PER TDRR 23208			[illegible]	
K		REVISED PER TDRR 23259			[illegible]	
L		REVISED PER TDRR 23508			10/20/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 2[illegible]	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	
AA		REVISED PER TDRR 26318	RAJ		2-15-66	
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	
AE		REVISED PER TDRR 27175	"		3-15-66	
AF		REVISED PER TDRR 27353			3-22-66	
AG		REVISED PER TDRR 27751			4-5-66	

Ⓗ REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
		LIST OF MATERIALS		

ND 1000000

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED D. HOAG PER TDRR

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 SIZE J DRAWING NO. 1014999

SHEET 1 OF 2

1014999

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-5	1010400-5	1010400-7	1010400-5	1010400-7	1010400-5	1010400-5	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-131	1899950-081	1899950-071	1899950-071	1899950-031	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
		1014609			1014609	1014609					1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
		1010400-8			1010400-8	1010400-8					1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
		1010400-7			1010400-7	1010400-7					1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400-3	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
		1010400-2			1010400-2	1010400-2					1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
		1010400-1			1010400-1	1010400-1					1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086	1015086-011	1015086-011	1015086	1015086	1015086-011	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	2014764-021	2014764-021	1023002-002	1023002-002	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	2014764-011	2014764-011	1023002-001	1023002-001	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-021	1014502-021	1014502-011	1014502-011	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-021	1014628-021	1014628-011	1014628-011	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-091	1015065-091	1015065-041	1015065-041	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-021	1014664-021	1014664-011	1014664-011	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
		AN 365D-440			AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
		1016889			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
		1015500-031			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
		1015500-021 (3)			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
		1017538-021			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
		1016885-021			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
		1016903-031			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-081	1001500-041	1001500-041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1004866-011	1004866-011	1005727	1004866-011	1005707-021	1005785-011	1005785-011	1003572-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003569-021	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003565-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-181	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's	225, 267, 270, 234	234	234, 180, 225, 240, 243, 246, 267, 270, 265	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246	234	171, 234, 180	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 267, 211, 165, 250, 253, 268, 266, 180, 206, 234	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 268, 180, 169, 174, 290, 246, 232, 240, 265, 202, 209, 243, 206, 266, 269,	175, 268, 123, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266, 269, 270, 290, 202, 209	252, 295, 202, 209, 175, 268, 123, 182, 183, 184, 187, 189, 169, 174, 211, 232, 206, 266, 219, 269, 290	202, 295, 209, 269, 290, 252, 175, 268, 80, 123, 182, 183, 184, 187, 189, 207, 169, 174, 232, 266	175, 206, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 202, 252, 295	202, 252, 295, 209, 175, 268, 211, 80, 123, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 269, 270, 290	175, 232, 202, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174, 209, 290, 285	130, 290	169, 80, 174, 202, 290	246, 206, 202, 175, 328, 290, 80, 180, 174, 159	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

ND 1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

QTY REQD | PART IDENTI

MIT
INSTRUMENTA
CAMBRIDGE

DRAWN E.A. Jorac
CHECKED
APPROVED
APPROVED D. Ho
APPROVED MIT
APPROVED MSC

F1 1 OF 2 1014999

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/6/65	WK
J		REVISED PER TDRR 23205			10/12/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-20-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353			3-22-66	WK
AG		REVISED PER TDRR 27751			4-5-66	

FIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
	1021289-1		1021289-1	1021289-1			1021289-1		1021289-1						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289-2		1021289-2	1021289-2			1021289-2		1021289-2						5	SCREW, CAP SOC HD CAPTIVE		40	159
	NAS1352C02LL6		NAS1352C02LL6	NAS1352C02LL6			NAS1352C02LL6		NAS1352C02LL6						7	SCREW, CAP SOC HD		40	158
	NAS1352C04LL6		NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305		1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299		1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303-011		1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY		40	154
	1015500-051		1015500-051	1015500-051			1015500-051								2	CDU ASSEMBLY		40	153
	1015500-041		1015500-041	1015500-041			1015500-041		1015500-041 (5)						3	CDU ASSEMBLY		40	152
	1021302-011		1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304-011		1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
										1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
																			145
																			144
																			143
																			142
																			141
																			140
																			139
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																			129
																			128
																			127
																			126
																			125
																			124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A James
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 5

1014999

E2 2 OF 2 1014999

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
5	CASE AND PANEL ASSY CDU	154 THRU 160
50	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
56	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
	1021289 - 1		1021289 - 1	1021289 - 1			1021289 -1		1021289-1						6	SCREW, CAP SOC HD CAPTIVE		40	60
	1021289 - 2		1021289 - 2	1021289 - 2			1021289 -2		1021289-2						5	SCREW, CAP SOC HD CAPTIVE		40	59
	NAS 352C02LL6		NAS1352C02LL6	NAS1352C02LL6			NAS1352C02LL6		NAS1352C02LL6						7	SCREW, CAP SOC HD		40	58
	NAS 352C04LL6		NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	57
	1021305		1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	56
	1021299		1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	55
	1021303 - 011		1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	54
	1015500 - 051		1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	53
	1015500 - 041		1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	52
	1021302 - 011		1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	5
	1021304 - 011		1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	50
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	49
										1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	48
																			47
																			46
																			45
																			44
																			43
																			42
																			41
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																			29
																			28
																			127
																			26
																			125
																			124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

F1 2 OF 2 1014999

REVISIONS TDRR C6407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/11/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R	Ⓐ	REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR [illegible]	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 -7	1010400-7	1010400 -5	1010400 - 5	1010400 -7	1010400 - 5	1010400 -7	1010400 - 5	1010400 - 5	1010400 -7	1010400 -7	1010400 -7			1	CLAMP, HINGED LOOP		55	99
	1007585 -011	1007585-011	1007585-011	1007585 -011	1007585 -011	1007585 -011	1007585 -011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 -000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1893975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1859980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 141	1899950 - 141	1899950 - 081	1899950 - 131	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
		1014609			1014609	1014609					1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8 (2)	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
		1010400 - 8			1010400 - 8	1010400 - 8					1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
		1010400 - 7			1010400 - 7	1010400 - 7					1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 - 3	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
		1010400 - 2			1010400 - 2	1010400 - 2					1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
		1010400 - 1			1010400 - 1	1010400 - 1					1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086 - 011	1015086	1015086 - 011	1015086 - 011	1015086	1015086	1015086 - 011	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002 - 002	1023002 - 002	2014764 - 021	2014764 - 021	1023002 - 002	1023002 - 002	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL		50	66
	1023002 - 001	1023002 - 001	2014764 - 011	2014764 - 011	1023002 - 001	1023002 - 001	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 011	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 041	1015065 - 041	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 041	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 021	1014664 - 021	1014664 - 011	1014664 - 011	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 031	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
		AN 365D - 440			AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
		1016889			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
		1015500 - 031			1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
		1015500 - 021 (3)			1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
		1017538 - 021			1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
		1016885 - 021			1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
		1016903 - 031			1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 081	1001500 - 041	1001500 - 041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1004866 - 011	1004866 - 011	1005727	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1003572 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707 - 031	1003707 - 031	1003707 - 031	1003707 - 031	1003707 - 011	1003707 - 011	1003576 - 011	1003564 - 021	1003564 - 021	1003569 - 021	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 011	1003706 - 011	1003577 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 091	1003770 - 091	1003770 - 061	1003770 - 061	1003770 - 191	1003770 - 131	1003770 - 131	1003770 - 181	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
NCORPORATED ECP'S	225, 267, 270, 234	234	234, 80, 225, 240, 184, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295	171, 60, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295	234	171, 234, 180	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 212, 285	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130	2, TD203, 234	2, CO 17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
UTSTANDING ECP'S	175, 268, 169, 174, 290, 246, 232, 240, 265, 202, 209, 243, 206, 266, 269,	175, 268, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266, 269, 270, 290, 202, 209	252, 202, 209, 175, 268, 169, 174, 211, 232, 206, 266, 219, 269, 290	269, 202, 290, 209, 175, 268, 80, 169, 174, 232, 266	175, 206, 180, 182, 183, 184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 202, 252, 295	202, 252, 295, 209, 175, 268, 211, 80, 123, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 269, 270, 290	175, 232, 202, 80, 123, 183, 184, 187, 169, 174, 209, 290	30, 290	169, 80, 174, 202, 290	246, 206, 202, 175, 328, 290, 80, 180, 174, 159	175, 109, 111, 114, 130, 147, 224	111, 114	25						
NFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 50 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL

ND 1000000
NEXT ASSY | USED ON
APPLICATION

DRAWN
CHECKED
APPROVED
APPROVED D. HOAG
PER TDRR

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 1 OF 2

MASTER

1014999

F-2

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 7	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		55	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 141	1899950 - 141	1899950 - 081	1899950 - 131	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
		1014609			1014609	1014609					1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8 (2)	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
		1010400 - 8			1010400 - 8	1010400 - 8					1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
		1010400 - 7			1010400 - 7	1010400 - 7					1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 - 3	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
		1010400 - 2			1010400 - 2	1010400 - 2					1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
		1010400 - 1			1010400 - 1	1010400 - 1					1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086 - 011	1015086	1015086 - 011	1015086 - 011	1015086	1015086	1015086 - 011	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002 - 002	1023002 - 002	2014764 - 021	2014764 - 021	1023002 - 002	1023002 - 002	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL		50	66
	1023002 - 001	1023002 - 001	2014764 - 011	2014764 - 011	1023002 - 001	1023002 - 001	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 011	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 041	1015065 - 041	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 041	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 021	1014664 - 021	1014664 - 011	1014664 - 011	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 031	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
		AN 365D - 440			AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
		1016889			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
		1015500 - 031			1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
		1015500 - 021 (3)			1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
		1017538 - 021			1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
		1016885 - 021			1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
		1016903 - 031			1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 081	1001500 - 041	1001500 - 041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1004866 - 011	1004866 - 011	1005727	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1003572 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707 - 031	1003707 - 031	1003707 - 031	1003707 - 031	1003707 - 011	1003707 - 011	1003576 - 011	1003564 - 021	1003564 - 021	1003569 - 021	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337 - 80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795 - 807 (4)	MS 15795-807 (4)	MS 15795 - 807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795 -807 (4)	MS 15795 -807 (4)	MS 15795 - 807 (4)	MS 15795 -807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT		5	29
	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995-26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 011	1003706 - 011	1003577 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795 -808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996-10	MS 16996 - 10	MS 16996 - 10	MS 16996-10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996-13	MS 16996 - 13	MS 16996 - 13	MS 16996-13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 091	1003770 - 091	1003770 - 061	1003770 - 061	1003770 - 191	1003770 - 131	1003770 - 131	1003770 - 181	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's	225, 267, 270, 234	234	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 215, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295	234	171, 234, 180	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 212, 285	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 268, 169, 174, 290, 246, 232, 240, 265, 202, 209, 243, 206, 266, 269,	175, 268, 180, 169, 174, 243, 246, 232, 240, 265, 225, 267, 206, 266, 269, 270, 290, 202, 209	252, 202, 208, 175, 268, 169, 174, 211, 232, 206, 266, 219, 269, 290	269, 202, 290, 209, 175, 268, 80, 169, 174, 232, 266	175, 206, 180, 182, 183, 184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 202, 252, 295	202, 252, 295, 209, 175, 268, 211, 80, 123, 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 269, 270, 290	175, 232, 202, 80, 123, 183, 184, 187, 169, 174, 209, 290	30, 290	169, 80, 174, 202, 290	246, 206, 202, 175, 328, 290, 80, 180, 174, 159,	175, 109, 111, 114, 130, 147, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION
CAMBRIDGE

DRAWN
CHECKED
APPROVED
APPROVED

QTY REQD

F1 1014999

REVISIONS	06407					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-12-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	[illegible]
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 2682	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	[illegible]
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353			3-22-66	WK
AG		REVISED PER TDRR 27751			[illegible]-5-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-13-66	[illegible]

DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
	1021289 - 1		1021289 - 1	1021289 - 1			1021289 -1		1021289-1						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 2		1021289 - 2	1021289 - 2			1021289 -2		1021289-2						5	SCREW, CAP SOC HD CAPTIVE		40	159
	NAS1352C02LL6		NAS1352C02LL6	NAS1352C02LL6			NAS1352C02LL6		NAS1352C02LL6						7	SCREW, CAP SOC HD		40	158
	NAS1352C04LL6		NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305		1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299		1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011		1021303 - 011	1021303 - 011			1021303 - 011		1021303-011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051		1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041		1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011		1021302 - 011	1021302 - 011			1021302 - 011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011		1021304 - 011	1021304 - 011			1021304 - 011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
										1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
																			145
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																			126
																			125
																			124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R. A. Jones
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC A. C. METZGER
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999

F-2

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
5	CASE AND PANEL ASSY CDU	154 THRU 160
50	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
	1021289 - 1		1021289 - 1	1021289 - 1			1021289 -1		1021289-1						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 2		1021289 - 2	1021289 - 2			1021289 -2		1021289-2						5	SCREW, CAP SOC HD CAPTIVE		40	159
	NAS1352C02LL6		NAS1352C02LL6	NAS1352C02LL6			NAS1352C02LL6		NAS1352C02LL6						7	SCREW, CAP SOC HD		40	158
	NAS1352C04LL6		NAS1352CC4LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305		1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299		1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011		1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051		1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041		1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011		1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011		1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
										1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
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																			125
																			124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

QTY REQD	

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

INSTRUMENTATION

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

F1 1014999

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-5	1010400-5	1010400-7	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-131	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
		1014609			1014609	1014609					1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
		1010400-8			1010400-8	1010400-8					1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
		1010400-7			1010400-7	1010400-7					1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400-3	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
		1010400-2			1010400-2	1010400-2					1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
		1010400-1			1010400-1	1010400-1					1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086	1015086-011	1015086-011	1015086	1015086	1015086-011	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	2014764-021	2014764-021	1023002-002	1023002-002	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL		50	66
	1023002-001	1023002-001	2014764-011	2014764-011	1023002-001	1023002-001	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-021	1014502-021	1014502-011	1014502-011	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-021	1014628-021	1014628-011	1014628-011	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-091	1015065-091	1015065-041	1015065-041	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-021	1014664-021	1014664-011	1014664-011	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
		AN 365D-440			AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
		1016889			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
		1015500-031			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
		1015500-021 (3)			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
		1017538-021			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
		1016885-021			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
		1016903-031			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-091	1001500-091	1001500-021	1001500-021	1001500-081	1001500-041	1001500-041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1004866-011	1004866-011	1005727	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003563-031	1003563-031	1003707-011	1003707-011	1003576-011	1003564-021	1003564-021	1003569-021	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-031	1003706-031	1003706-011	1003706-011	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-041	1003700-041	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-161	1003770-161	1003770-061	1003770-061	1003770-191	1003770-131	1003770-131	1003770-181	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's	225,267,270,234	234	234,180,225,240, 182 243,246,267,270, 183, 265,184,187,189,295,175 266,268,269,219	171,160,234,180,265, 182,267,270,206,211,219 183,225,240,243,246 184,187,189,207,252,295, 175,266,268,269	234	171,234,180	171,234,206,246,240, 265,225,267,268,243, 266,269,270,182,189, 211,285	25,84,177,147,109,111, 114,171,182,183,184 185,186,187,188,189 190,195,208,212,175 180,137,246,251,266, 232,206,234,130	177,147,111,114,171,130,84 182 THRU 190,195,137, 208,212,175,25,83,232, 160,219,246,240,265, 277,211,165,250,253,268, 266,180,206,234	20,63,96,177,25,234, 116,160,111,114,109, 147,182,183,185,187, 188,195,208,212,171, 223,189,184,169,130, 159,180	2, TD203, 234	2, CO17, 234	2,9,6,234	6,25,234					
OUTSTANDING ECP's	169,174,174,202,206 209,232,240,243,246 265,266,268,269,290	169, 174,243,246, 232,240,265,225,267, 206,266,269,270,290, 202,209,175,268,180	169, 174,202,206,209, 211,232,252,290	80,169,174,202, 209,232,290,327	184,187,189,207, 174,211,269,232,225, 270,290,202,252,295 175,180,182,183,206	202 252,295,209 175,268,211,80,123, 327 182,183,184,187, 189,207,169,174,246 232,240,265,225,267 243,206,269,270,290	80,123,169, 174,175,183,184,187, 202,209,232,290,327	290	327 169,80,174,202,290	80,174,175,202, 206,246,290,327,328	109,111, 114,130,147,175,224	111,114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 264[illegible]7

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/7/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	MSM
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	MSM
AC		REVISED PER TDRR 26821	"		3-4-66	MSM
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	MSM
AH		REVISED PER TDRR 27933	"		4-13-66	MSM
AJ		REVISED PER TDRR 28206	"		4-28-66	WK

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones Sept 13 1965
CHECKED 13 Sept 65
APPROVED T. 14 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

1014999

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
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								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK			105
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	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		5	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		5	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		5	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		5	100
	1010400 - 7	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		5	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		5	98
															1	LENS CLEANING KIT		5	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	5	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	5	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		5	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		5	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		5	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		5	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		5	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		5	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		5	88
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	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 45 - 11	2	BOLT, HEX HD		5	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		5	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		5	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		5	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		5	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		5	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		5	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		5	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		5	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		5	77
	1899950 - 141	1899950 - 141	1899950 - 081	1899950 - 131	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 051	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	5	76
		1014609			1014609	1014609					1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		6	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		5	74
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		1010400 - 8			1010400 - 8	1010400 - 8					1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		5	72
		1010400 - 7			1010400 - 7	1010400 - 7					1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		6	71
	1010400 (10)	1010400 - 3	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	6	70
		1010400 - 2			1010400 - 2	1010400 - 2					1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		5	69
		1010400 - 1			1010400 - 1	1010400 - 1					1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		[illegible]	68
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	1023002 - 002	1023002 - 002	2014764 - 021	2014764 - 021	1023002 - 002	1023002 - 002	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL		[illegible]	66
	1023002 - 001	1023002 - 001	2014764 - 011	2014764 - 011	1023002 - 001	1023002 - 001	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL		[illegible]	65
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	1014502 - 011	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		[illegible]	62
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	1015065 - 041	1015065 - 041	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 041	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		[illegible]	59
	1014664 - 011	1014664 - 011	1014664 - 021	1014664 - 021	1014664 - 011	1014664 - 011	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	[illegible]	58
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	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		5	56
	1008535	1008535	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		4	55
	1007580 - 011	1007580 - 011	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		5	54
	1007579 - 011	1007579 - 011	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		5	53
	1007578 - 011	1007578 - 011	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		5	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		[illegible]	51
	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		5	50
	1007576 - 011	1007576 - 011	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		[illegible]	49
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	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		[illegible]	47
	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		[illegible]	46
	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		[illegible]	45
	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		[illegible]	44
	1007570 - 011	1007570 - 011	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	[illegible]	43
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		1015500 - 021 (3)			1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		[illegible]	39
		1017538 - 021			1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		[illegible]	38
		1016885 - 021			1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	4	37
		1016903 - 031			1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	4	36
	1001500 - 031	1001500 - 031	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 021	1001500 - 081	1001500 - 041	1001500 - 041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		3	35
		1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		3	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		1	33
	1005727	1005727	1004866 - 011	1004866 - 011	1005727	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	5	32
	1003707 - 031	1003707 - 031	1003563 - 031	1003563 - 031	1003707 - 011	1003707 - 011	1003576 - 011	1003564 - 021	1003564 - 021	1003569 - 021	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		[illegible]	31
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	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		[illegible]	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 011	1003706 - 011	1003577 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004285	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		[illegible]	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE.		[illegible]	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		[illegible]	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		[illegible]	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		[illegible]	11
													AN 104608	AN 104608	4	SCREW, HEX HD		[illegible]	10
													AN 104606	AN 104606	4	SCREW, HEX HD		[illegible]	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		[illegible]	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		[illegible]	7
													1003189 - 011	1003189	1	AGC END CONNECTOR ASSY		[illegible]	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		[illegible]	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		[illegible]	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		[illegible]	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	[illegible]	2
	1003770 - 091	1003770 - 091	1003770 - 161	1003770 - 161	1003770 - 061	1003770 - 061	1003770 - 191	1003770 - 131	1003770 - 131	1003770 - 181	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	[illegible]	
INCORPORATED ECP's	225, 267, 270, 234	234	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 175, 266, 268, 269	234	171, 234, 180	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 212, 265	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	169, 174, 174, 202, 206, 209, 232, 240, 243, 246, 265, 266, 268, 269, 290	169, 174, 243, 246, 232, 240, 265, 225, 267, 206. 266, 269, 270, 290, 202, 209, 175, 268, 180	169, 174, 202, 206, 209, 211, 232, 252, 290	80 169, 174, 202, 209, 232, 290, 327	184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 202, 252, 295, 175, 180, 182, 183, 206	202 252, 295, 209, 175, 268, 211, 80, 123, 327 182, 183, 184, 187, 189, 207, 169, 174, 246, 232, 240, 265, 225, 267, 243, 206, 269, 270, 290	80, 123, 169, 174, 175, 183, 184, 187, 202, 209, 232, 290, 327	290	327 169, 80, 174, 202, 290	80 174, 175, 202, 206, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

QTY REQD

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS.
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12 28 65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK

FIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
	1021289 - 1		1021289 - 1	1021289 - 1			1021289 -1		1021289-1						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 2		1021289 - 2	1021289 - 2			1021289 -2		1021289-2						5	SCREW, CAP SOC HD CAPTIVE		40	159
	NAS1352C02LL6		NAS1352C02LL6	NAS1352C02LL6			NAS1352C02LL6		NAS1352C02LL6						7	SCREW, CAP SOC HD		40	158
	NAS1352C04LL6		NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305		1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299		1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011		1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051		1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041		1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011		1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011		1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
										1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
																			145
																			144
																			143
																			142
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																			131
																			130
																			129
																			128
																			127
																			126
																			125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED A J Lerner Oct 5 1965
APPROVED
APPROVED D. HOAG PER TDRR WK
APPROVED MIT W Cagin 6 Oct 65
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 AJ

NOTICE - WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION. THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER. AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED. FURNISHED. OR IN ANY WAY SUPPLIED THE SAID DRAWINGS. SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION. OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE. USE. OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 160
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
56	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

	1021289 - 1		1021289 - 1	1021289 - 1			1021289 -1		1021289-1						6	SCREW, CAP SOC HD CAPTIVE		4	
	1021289 - 2		1021289 - 2	1021289 - 2			1021289 -2		1021289-2						5	SCREW, CAP SOC HD CAPTIVE		4	
	NAS1352C02LL6		NAS1352C02LL6	NAS1352C02LL6			NAS1352C02LL6		NAS1352C02LL6						7	SCREW, CAP SOC HD		4	
	NAS1352C04LL6		NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		4	
	1021305		1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		4	
	1021299		1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		4	
	1021303 - 011		1021303 - 011	1021303 - 011			1021303 - 011		1021303-011						1	FRAME MACHINING ASSY		4	
	1015500 - 051		1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		4	
	1015500 - 041		1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		4	
	1021302 - 011		1021302 - 011	1021302 - 011			1021302 - 011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	4	
	1021304 - 011		1021304 - 011	1021304 - 011			1021304 - 011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	4	
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11		
										1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY			
										1026019 REV -					1	K START CONTROL MISSION PPOFILE	SEE NOTE 10	55	
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	
								1026004 REV -		1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	
								1026003 REV -		1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	
								1026002 REV -		1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	
										1008268					1	WIRE HARNESS G	SEE NOTE 9		
								2018898							1	WIRING HARNESS			
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			
								1010705 8							1	CLAMP LOOP			
								1010705 - 6							1	CLAMP LOOP			
								1010705 - 5							1	CLAMP LOOP			
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

QTY REQD

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-7	1010400-5	1010400-5	1010400-7	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011786	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-131	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609						1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
					1010400-8						1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
					1010400-7						1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400 (10)	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400-2						1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
					1010400-1						1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-011	1015086	1015086-011	1015086-011	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-021	1014664-021	1014664-021	1014664-021	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1004866-011	1004866-011	1005727	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003563-031	1003563-031	1003707-011	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-031	1003706-031	1003706-011	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-041	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-161	1003770-161	1003770-061	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
PORATED ECP'S	225, 232, 234, 240, 246, 265, 266, 267, 269, 270	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270	234, 60, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 206, 232	171, 60, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269	234	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 225, 232, 234, 240, 243, 246, 252, 265, 270, 295,	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 212, 285, 175, 232, 183, 184, 187,	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234 169	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO 17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
TSTANDING ECP'S	202, 290	169, 290, 202, 209, 174, 175 80	174, 206, 209 211, 169 290	80, 174 202 209, 232 290, 327	184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 202, 252, 295, 175, 180, 182, 183, 206	80, 123, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 123 169 202, 209, 80, 290, 327	290	80, 174 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
[illegible]	[illegible]	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
STEMS	24	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR C 6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	
J		REVISED PER TDRR 23203			10/12/65	
K		REVISED PER TDRR 23259			10/19/65	
L		REVISED PER TDRR 23502			10/26/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	
AA		REVISED PER TDRR 26318	RAJ		2-15-66	
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	
AE		REVISED PER TDRR 27175	"		3-15-66	
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	
AK		REVISED PER TDRR 28374	"		5-3-66	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones Sept 15 1965
CHECKED 15 Sept
APPROVED 15 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

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								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 7	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 141	1899950 - 141	1899950 - 081	1899950 - 131	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 051	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609						1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
					1010400 - 8						1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
					1010400 - 7						1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 (10)	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400 - 2						1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
					1010400 - 1						1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 011	1015086	1015086 - 011	1015086 - 011	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764 - 021	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G&N PANEL		[illegible]	66
	2014764 - 011	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G&N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664 - 021	1014664 - 021	1014664 - 021	1014664 - 021	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 031	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
					1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
					1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
					1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1004866 - 011	1004866 - 011	1005727	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	56	32
	1003707 - 031	1003707 - 031	1003563 - 031	1003563 - 031	1003707 - 011	1003563 - 031	1003563 - 041	1003564 - 021	1003564 - 021	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337 - 80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 011	1003706 - 031	1003577 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003190	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003189 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 161	1003770 - 161	1003770 - 061	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270	234, 160, 225, 240, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 206, 232	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 295, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269	234	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 225, 232, 234, 240, 243, 246, 252, 265, 270, 295	171, 234, 206, 246, 240, 207, 225, 267, 268, 243, 266, 269, 270, 182, 189, 212, 285, 175, 232, 183, 184, 187,	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234, 169	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 174, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO12, 234	2, 5, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	169, 174, 209, 202, 290	169, 290, 202, 209, 174, 175, 180	174, 206, 209, 211, 169, 290	80, 174, 202, 209, 232, 290, 327	184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 202, 252, 295, 175, 180, 182, 183, 206	80, 123, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 123, 169, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

NEXT ASSY | USED ON

APPLICATION

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/11/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	[illegible]
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-13-66	[illegible]
AJ		REVISED PER TDRR 28206			4-28-66	WK
AK		REVISED PER TDRR 28374			5-3-66	[illegible]

NFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEM	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
				1021255 - 021		1021255-021			1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
																			145
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																			127
																			126
																			125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED A J Lemay
APPROVED
APPROVED D HOAG
APPROVED MIT 5 Oct 65
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
15	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		10	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		10	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		10	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		10	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		10	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		10	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		10	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		10	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		10	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		10	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		10	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	10	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	10	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	[illegible]	149
				1021255 - 021		1021255-021			1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		12	148
																			147
																			146
																			145
																			144
																			143
																			142
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																			128
																			127
																			126
																			125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	[illegible]	124
								1026013 REV -							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 0	15	123
								1026016 REV -		1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	15	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	15	121
								1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	15	120
								1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	15	119
								1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	15	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	15	117
										1008268					1	WIRE HARNESS G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			[illegible]

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 141	1899950 - 141	1899950 - 081	1899950 - 131	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 051	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609					1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
					1010400 - 8						1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
					1010400 - 7						1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 (10)	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400 - 2						1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
					1010400 - 1						1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 011	1015086	1015086 - 011	1015086 - 011	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764 - 021	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G&N PANEL		50	66
	2014764 - 011	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G&N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664 - 021	1014664 - 021	1014664 - 021	1014664 - 021	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 031	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
					1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
					1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
					1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1004866 - 011	1004866 - 011	1004866 - 011	1005727	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707 - 031	1003707 - 031	1003563 - 031	1003563 - 031	1003707 - 011	1003563 - 031	1003563 - 041	1003564 - 021	1003564 - 021	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 011	1003706 - 031	1003577 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 161	1003770 - 161	1003770 - 061	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180	234, 80, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 206, 232, 169	171, 80, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269, 232	234	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 225, 232, 234, 240, 243, 246, 252, 265, 270, 295,	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 212, 285, 175, 232, 183, 184, 187,	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 162 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234, 169	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206,	2, TD203, 234	2, CO 17, 234	2, 9, 6, 234	6, 25, 234					
OUTSTANDING ECP'S	175, 209, 202, 290	69, 202, 209, 174, 175, 290	211, 174, 209, 290	80, 174, 209, 202, 290, 327	184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 202, 252, 295, 175, 180, 182, 183, 206	80, 123, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 123, 165, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

REVISIONS TDRR 26437

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	
J		REVISED PER TDRR 23203			[illegible]	
K		REVISED PER TDRR 23259			10/1/65	
L		REVISED PER TDRR 23502			10/26/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	
AA		REVISED PER TDRR 26318	RAJ		2-15-66	
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26846	"		3-8-66	
AE		REVISED PER TDRR 27175	"		3-15-66	
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	
AK		REVISED PER TDRR 28374	"		5-3-66	
AL		REVISED PER TDRR 28732	"		5-12-66	

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-131	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609						1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
					1010400-8						1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
					1010400-7						1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400 (10)	1010400 (10)	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400-2						1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
					1010400-1						1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-011	1015086	1015086-011	1015086-011	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-021	1014664-021	1014664-021	1014664-021	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		35	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		35	33
	1005727	1004866-011	1004866-011	1004866-011	1005727	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	35	32
	1003707-031	1003707-031	1003563-031	1003563-031	1003707-011	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-031	1003706-031	1003706-011	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-041	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-161	1003770-161	1003770-061	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 206, 232, 169	17, 60, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269, 232	234	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 225, 232, 234, 240, 243, 246, 252, 265, 270, 295	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 211, 285, 175, 232, 183, 184, 187,	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 194, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234 169	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP'S	175, 169, 174, 209, 202, 290	169, 202, 209, 174, 175, 290	211, 174, 209, 290	80, 174, 209, 202, 290, 327	184, 187, 189, 207, 174, 211, 269, 232, 225, 270, 290, 202, 252, 295, 175, 180, 182, 183, 206	80, 123, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 123, 169, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

F1 1014999

REVISIONS 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27333	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-13-66	[illegible]
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	[illegible]
AL		REVISED PER TDRR 28732	"		5-12-66	[illegible]

	17577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	17576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	21289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	21289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	17575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD,SPECIAL		40	158
	352 C04 LL6	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04LL6			NAS 1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		40	157
	[illegible]	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	21299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	15500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	15500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	21302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	21304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
			1021225 - 021	1021255 - 021		1021255-021			1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. –							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. –							1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. –							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. –							1	G&N POLARITY TEST	SEE NOTE 12	55	141
																			140
																			139
																			138
																			137
																			136
																			135
																			134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
																			126
																			125
										1026019 REV –					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV –	1026018 REV –	1026017 REV –					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV –		1026010 REV –					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV –	1026028 REV –	1026005 REV –					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV –	1026026 - REV –	1026008 REV –					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV –	1026027 - REV –	1026007 REV –					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV –		1026006 REV –					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111
NFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC C. [illegible]
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

MASTER

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
5	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
56	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		10	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		10	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		10	60
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	59
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		80	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		80	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		80	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	80	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
			1021225 - 021	1021255 - 021		1021255-021			1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. -							1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. -							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. -							1	G&N POLARITY TEST	SEE NOTE 12	55	141
																			140
																			139
																			138
																			137
																			136
																			135
																			134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
																			126
																			125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV -	1026027 - REV -	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			11
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	SUP. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

QTY REQD

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

F1 1014999

REVISIONS 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/12/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-29-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-13-66	[illegible]
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 29732	"		5-12-66	[illegible]
AM		REVISED PER TDRR 28867	"		5-24-66	[illegible]
AN		REVISED PER TDRR 29164	"		5-31-66	[illegible]

	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04LL6			NAS1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
		1021225 - 021	1021225 - 021	1021255 - 021		1021255-021			1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. –							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. A							1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. –							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV –							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV –							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV –							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV –							1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
																			136
																			135
																			134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
																			126
									1026020 REV –						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV –					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV –	1026018 REV –	1026017 REV –					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV –		1026010 REV –					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV –	1026028 REV –	1026005 REV –					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV –	1026026 - REV –	1026008 REV –					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV –	1026027 - REV –	1026007 REV –					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV –		1026006 REV –					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111
HAT ON DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R A Jones Oct 4 1965
CHECKED A J Rogers
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC C. MILTNER

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
DATE
SHEET 2 OF 2

MASTER

J1014999

[illegible]

51	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24
FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	16
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	16
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	16
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	15
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	15
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	15
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	15
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	15
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	15
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	15
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	15
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	15
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	15
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	14
		1021225 - 021	1021225 - 021	1021255 - 021		1021255-021			1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	14
																			14
																			14
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	14
								1026014 REV. -							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	14
								1026015 REV. A							1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	14
								1026012 REV. -							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	14
								1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55	14
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	14
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	13
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	13
								1026035 REV -							1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	13
																			13
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																			12
																			12
																			12
									1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	12
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	12
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	12
								1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	12
								1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	12
								1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	12
								1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	11
								1026002 REV -	1026027 - REV -	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	11
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	11
										1008268					1	WIRE HARNESS G"	SEE NOTE 9		11
								2018898							1	WIRING HARNESS			11
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			11
								1010705 8							1	CLAMP LOOP			11
								1010705 - 6							1	CLAMP LOOP			11
								1010705 -5							1	CLAMP LOOP			11

MASTER

QTY REQD

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

—

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-081	1899950-131	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
					1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
					1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
					1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-021	1014664-021	1014664-021	1014664-021	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1004866-011	1004866-011	1004866-011	1005727	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003563-031	1003563-031	1003707-011	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-031	1003706-031	1003706-011	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-041	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-161	1003770-161	1003770-061	1003770-61	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S	[illegible] 225, 232, 234, 240, [illegible] 246, 265, 266, 267, [illegible] 69, 270, 354	206 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 69, 354	234, 80, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 206, 232, 169, 354	17[illegible], 80, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269, 232, 354	234, 225	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 232, 234, 240, 243, 246, 252, 265, 295	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 169, 212, 285, 175, 232, 183, 184, 187, 354	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 30, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234, 169, 354	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 165, 130, 159, 180, 175, 206	2, TD203, 234	2, CO 17, 234	2, 9, 6, 234	6, 25, 234					
OUTSTANDING ECP'S	175, [illegible] 202, 290	202, 209, 174, 175, 290	211, 174, 209, 290	80, 174, 209, 202, 290, 327	184, 187, 189, 207, 174, 211, 269, 232, 290, 202, 252, 295, 175, 180, 182, 183, 206	80, 123, 354, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 123, 169, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
CONFIGURATION DASH NO.	-1[illegible]1	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 2[illegible]	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-6-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-65	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones
CHECKED
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT
APPROVED MSC
DATE 15 Sept 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

F2

J1014999

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 141	1899950 - 141	1899950 - 081	1899950 - 131	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 051	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
					1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
					1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
					1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764 - 021	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL		50	66
	2014764 - 011	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664 - 021	1014664 - 021	1014664 - 021	1014664 - 021	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 031	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
					1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
					1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
					1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 041	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1004866 - 011	1004866 - 011	1004866 - 011	1005727	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707 - 031	1003707 - 031	1003563 - 031	1003563 - 031	1003707 - 011	1003563 - 031	1003563 - 041	1003564 - 021	1003564 - 021	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 011	1003706 - 031	1003577 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 161	1003770 - 161	1003770 - 061	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 206, 232, 169, 354	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269, 232, 354	234, 225	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 232, 234, 240, 243, 246, 252, 265, 295	171, 234, 295, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 212, 285, 175, 232, 183, 184, 187, 354	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234, 169, 354	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 169, 174, 209, 202, 290	202, 209, 174, 175, 290	211, 174, 209, 290	80, 174, 209, 202, 290, 327	184, 187, 189, 207, 174, 211, 269, 232, 290, 202, 252, 295, 175, 180, 182, 183, 206	80, 123, 354, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 123, 169, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT MAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

E1

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 -7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 -7	1010400 - 5	1010400 -7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 -7	1010400 -7			1	CLAMP, HINGED LOOP		55	99
	1007585 -011	1007585 -011	1007585 -011	1007585 -011	1007585 -011	1007585 -011	1007585 -011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734 - 001	1011734 - 001	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1013009	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 141	1899950 - 141	1899950 - 141	1899950 - 131	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 051	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
					1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
					1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
					1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764 - 021	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL		50	66
	2014764 - 011	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	[illegible]	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	[illegible]	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	[illegible]	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	[illegible]	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	[illegible]	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664 - 021	1014664 - 021	1014664 - 021	1014664 - 021	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	[illegible]	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 031	1015023 - 011	1014513 - 031	1014513 - 000	[illegible]	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	[illegible]	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	[illegible]	1008135	1008135	1	TOE CAP		45	55
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	[illegible]	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	[illegible]	1007159	1007159	1	TRAY 9		45	53
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
					1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
					1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
					1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1004866 - 011	1004866 - 011	1004866 - 011	1005727	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707 - 031	1003707 - 031	1003563 - 031	1003563 - 031	1003707 - 011	1003563 - 031	1003563 - 041	1003564 - 021	1003564 - 021	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 011	1003706 - 031	1003577 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 161	1003770 - 161	1003770 - 061	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
CORPORATED ECP'S	[illegible] 225, 232, 234, 240, [illegible] 246, 265, 266, 267, [illegible] 269, 270, 354, 169	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354	234, 60, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354	171, 60, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269, 232, 354	234, 225	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 232, 234, 240, 243, 246, 252, 265, 295	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 211, 285, 175, 232, 183, 184, 187, 354, 169	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234, 169, 354, 269	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
TSTANDING ECP'S	175, [illegible] 202, 290	202, 209, 174, 175, 290	202, 174, 209, 290	80, 174, 209, 202, 290, 327	184, 187, 189, 207, 174, 211, 269, 232, 290, 202, 252, 295, 175, 180, 182, 183, 206	80, 123, 354, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 123, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
FIGURATION DASH NO.	-1[illegible]1	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
& N SYSTEMS	24	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			11/5/65	WK
J		REVISED PER TDRR 23208				WK
K		REVISED PER TDRR 23259			10/1/65	WK
L		REVISED PER TDRR 23508			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28667	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1C00000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED 15 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

F2

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-141	1899950-131	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
					1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
					1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
					1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	101452 031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	101506 -031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-021	1014664-021	1014664-021	1014664-021	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-031	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1004866-011	1004866-011	1004866-011	1005727	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003563-031	1003563-031	1003707-011	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-031	1003706-031	1003706-011	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-041	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-161	1003770-161	1003770-061	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 207, 174, 266, 268, 269, 219, 211, 206, 232, 169, 354	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269, 232, 354	234, 225	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 232, 234, 240, 243, 246, 252, 265, 295	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 211, 285, 175, 232, 183, 184, 187, 354, 169	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234, 169, 354, 269	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO 17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 174, 209, 202, 290	202, 209, 174, 175, 290	202, 174, 209, 290	80, 174, 209, 202, 290, 327	184, 187, 189, 207, 174, 211, 269, 232, 290, 202, 252, 295, 175, 180, 182, 183, 206	80, 123, 354, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 123, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
		REVISIONS 0C407				
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	WK
J		REVISED PER TDRR 23205			10/12/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	[illegible]
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	[illegible]
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-13-66	[illegible]
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	[illegible]
AM		REVISED PER TDRR 28867	"		5-24-66	MCM
AN		REVISED PER TDRR 29164	"		5-31-66	MCM
AP		REVISED PER TDRR 29188	"		6-9-66	MCM
AR		REVISED PER TDRR 29362	"		6-13-66	MCM

ON DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. –							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. A							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. –							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV –							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV –							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV –							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV –							1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
																			136
																			135
																			134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
									1026040 REV –						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
									1026020 REV –						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV –					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEF AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV –	1026018 REV –	1026017 REV –					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV –	1026038 REV –	1026010 REV –					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV –	1026028 REV –	1026005 REV –					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV –	1026026 - REV –	1026008 REV –					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV –	1026027 - REV A	1026007 REV –					1	G & N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV –		1026006 REV –					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED A J [illegible] Oct 5 1965
APPROVED
APPROVED D. HOAG for [illegible] WK
APPROVED MIT W [illegible] 6 Oct [illegible]
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
[illegible]	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
116	AIRBORNE VIBRATION ASSY	107 THRU 115
[illegible]	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
[illegible]	NAV. BASE & OPTICAL UNIT ASSY	77 THRU 96
[illegible]	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
[illegible]	CDU FRAME ASSY	41 AND 42
[illegible]	AGC NAV DSKY	26 THRU 30
	APOLLO GUIDANCE COMPUTER	3 THRU 24
FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION

TABLE I (SEE NOTE 4)

										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255 - 021	1021255 - 021		1021255 - 011	1021255 - 011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. –							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. A							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. –							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV –							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV –							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV –							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV –							1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
																			136
																			135
																			134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
									1026040 REV –						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
									1026020 REV –						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV –					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
								1026016 REV –	1026018 REV –	1026017 REV –					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV –	1026038 REV –	1026010 REV –					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
								1026004 REV –	1026028 REV –	1026005 REV –					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
								1026003 REV –	1026026 - REV –	1026008 REV –					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
								1026002 REV –	1026027 - REV A	1026007 REV –					1	G & N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV –		1026006 REV –					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

QTY REQD

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

NEXT ASSY
USED ON
APPLICATION

INSTRUM
CAMB

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT

-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400-7	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-141	1899950-141	1899950-131	1899950-131	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-9	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL		50	66
2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL		50	65
																		64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
1014664-021	1014664-021	1014664-021	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
1003707-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770-091	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1

INCORPORATED ECP'S	[illegible] 225, 232, 234, 240, [illegible] 246, 265, 266, 267, [illegible] 269, 270, 354, 169	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75	234, 80, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354	171, 60, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 89, 207, 252, 295, 169, 175, 266, 268, 269, 209, 232, 354	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 295	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 212, 285, 175, 232, 183, 184, 187, 354, 169	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234, 169, 354, 269	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO 17, 234	2, 9, 6, 234	6, 25, 234
OUTSTANDING ECP'S	175, [illegible] 202, 290	202, 209, 174, 290	202, 174, 209, 290	80, 174, 202, 290, 327	174, 211, 269, 232, 290, 202, 206	80, 354, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25	
INSTALLATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 50 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

REVISIONS TDRR 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	
J		REVISED PER TDRR 23203			10/12/65	
K		REVISED PER TDRR 23259			10/18/65	
L		REVISED PER TDRR 23502			10/26/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	
AA		REVISED PER TDRR 26318	RAJ		2-15-66	
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	
AE		REVISED PER TDRR 27175	"		3-15-66	
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	
AK		REVISED PER TDRR 28374	"		5-3-66	
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28667	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		" " " 29716	"		6-29-66	

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DO NOT SCALE THIS DRAWING

ND 1000000
NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
J
DRAWING NO. 1014999
SHEET 1 OF 2

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

							1010705 - 4							1	CLAMP LOOP			10
							1010400 - 9							1	CLAMP, HINGED LOOP			09
							1010400 - 4							2	CLAMP, HINGED LOOP			08
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			07
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		06
														1	FLIGHT-DATA BOOK		55	05
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	04
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	03
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	02
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	01
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	00
	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734 - 001	1011734 - 001	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1013009	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 141	1899950 - 141	1899950 - 141	1899950 - 131	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 051	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
					1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
					1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
					1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764 - 021	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G&N PANEL		50	66
	2014764 - 011	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G&N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664 - 021	1014664 - 021	1014664 - 021	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																			57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
					1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
					1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
					1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707 - 031	1003563 - 031	1003563 - 031	1003563 - 031	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003564 - 021	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003577 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 -10	MS 16996 -10	MS 16996 -10	MS 16996 -10	MS 16996 -10	MS 16996 -10	MS 16996 -10	MS 16996 -10	MS 16996 -10	MS 16996 -10	MS 16996 -10	MS 16996 -10			4	SCREW, SOC HD HEX		5	15
	MS 16996 -13	MS 16996 -13	MS 16996 -13	MS 16996 -13	MS 16996 -13	MS 16996 -13	MS 16996 -13	MS 16996 -13	MS 16996 -13	MS 16996 -13	MS 16996 -13	MS 16996 -13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 -38	1010630 -38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN104608	4	SCREW, HEX HD		5	10
													AN 104606	AN104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 -58	1010630 -58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269, 209, 232, 354	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 295	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 211, 285, 175, 232, 183, 184, 187, 354, 169	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234, 169, 354, 269	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 174, 209, 202, 290	202, 209, 174, 290	202, 174, 209, 290	80, 174, 202, 290, 327	174, 211, 269, 232, 290, 202, 206	80, 354, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN µf RESISTOR VALUES ARE IN OHMS

TOLERANCES ON FRACTIONS DECIMALS ANGLES

DO NOT SCALE THIS DRAWING

MATERIAL

CHECKED

APPROVED

NEXT ASSY USED ON

APPLICATION

SYM	ZONE	DESCRIPTION	DR	CH	DATE	APPROVED
REVISIONS 06407						
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/4/65	WK
J		REVISED PER TDRR 23205			10/12/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	[illegible]
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-13-66	[illegible]
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	[illegible]
AM		REVISED PER TDRR 28867	"		5-24-66	[illegible]
AN		REVISED PER TDRR 29164	"		5-31-66	[illegible]
AP		REVISED PER TDRR 29188	"		6-9-66	[illegible]
AR		REVISED PER TDRR 29362	"		6-13-66	[illegible]
AS		" " " 29716	"		6-29-66	[illegible]

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. A							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. -							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -							1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
																			136
																			135
																			134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
				1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
				1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
				1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
				1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones Oct 4 1965
CHECKED A. J. [illegible] Oct [illegible]
APPROVED
APPROVED D. HOAG for [illegible]
APPROVED MIT [illegible] 6 Oct [illegible]
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

10 9 8 7 6 5 4 3 2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
56	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -.					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021269 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. A							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	5	143
								1026012 REV. -							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	5	142
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	5	141
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	5	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	5	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	5	138
								1026035 REV -							1	G & N TO SC POLARITY TEST	SEE NOTE 12	5	137
																			136
																			135
																			134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
				1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	5	126
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	5	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	5	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	5	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
				1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
				1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
				1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS "G"	SEE NOTE [illegible]		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μF RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± — ± — DO NOT SCALE THIS DRAWING	QTY REQD INSTRUM DRAWN CHECKED APPROVED APPROVED APPROVED MIT APPROVED MSC
NEXT ASSY	USED ON	MATERIAL	
APPLICATION			

10 9 8 7 6 5 4 3 2

	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
								1010705-4							1	CLAMP LOOP	
								1010400-9							1	CLAMP, HINGED LOOP	
								1010400-4							2	CLAMP, HINGED LOOP	
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
															1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400-7	1010400-5	1010400-[illegible]	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
															1	LENS CLEANING KIT	
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011786	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
	2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
	2011932	2011932	2011932	2012700	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2011960	2011960	2011960	20127[illegible]9	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS	
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950-141	1899950-141	1899950-141	1899950-181	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
					1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
					1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5
					1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
					1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
	1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	[illegible]4606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL	
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY	
	1014664-021	1014664-021	1014664-021	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10	
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG	
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4
	1003707-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
														1003457	1	AGC CONN COVER PLATE	
														1003180	1	AGC TOE PLATE	
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
													AN 104608	AN 104608	4	SCREW, HEX HD	
													AN 104606	AN 104606	4	SCREW, HEX HD	
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
													1003489-011	1003189	1	AGC END CONNECTOR ASSY	
													1003197-011	1003197	1	G & N HARNESS TRAY ASSY	
													1003493-011	1003184	1	MEMORY TRAY B ASSY	
													1003488-011	1003187	1	LOGIC TRAY A ASSY	
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770-091	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175	234, 180, 225, 240, 243, 246, 267, 270, 265, 184, 187, 189, [illegible] 266, 268, 269, 219, 206, 232, 169, 354, 82, 83, 175, 211	171, 80, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, [illegible] 169, [illegible] 266, 268, 269, 209, 232, 354, 290	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 295	171, 234, 206, 246, 240, 265, 225, 264, 268, 243, 266, 269, 270, 182, 189, 21[illegible], 285, 175, 232, 183, 184, 187, 354, 169	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 37, 246, 251, 266, 232, [illegible], 234, 30	177, 147, 111, 114, 171, 30, 84, 182 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 206, 234, 169, 354, 269	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234			
OUTSTANDING ECP's	175, 174, 209, 202, 290	202, 209, 174, 290	202, 174, 209, 290	80, 174, 202, 327	174, 211, 269, 232, 290, 202, 206	80, 354, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 202, 209, 80, 290, 327	290	80, 171, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25				
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 7[illegible], 58, 106, 32, 50 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

NEXT ASSY | USED ON

APPLICATION

171014999

-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
		1	CLAMP LOOP			110
		1	CLAMP, HINGED LOOP			109
		2	CLAMP, HINGED LOOP			108
		1	AIRBORNE AMPLIFIER PLATE ASSY			107
		1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
		1	FLIGHT-DATA BOOK		55	105
1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
		1	CLAMP, HINGED LOOP		55	99
		1	TRACKER X & Y ASSY		55	98
		1	LENS CLEANING KIT		55	97
1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY		65	94
1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
1011932	1011932	1	SXT EYEPIECE ASSY		65	92
1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
		1	CLAMP LOOP		56	74
1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
		1	LONG HANDLE, G & N PANEL		50	66
		1	SHORT HANDLE, G & N PANEL		50	65
						64
1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
						57
1008591	1008591	6	SCREW REWORKED		45	56
1008135	1008135	1	TOE CAP		45	55
1007160	1007256 - 011	1	TRAY 10		45	54
1007159	1007159	1	TRAY 9		45	53
1007158	1007158	1	TRAY 8		45	52
1007114	1007114	1	SHORTING PLUG		45	51
1007157	1007157	1	TRAY 7		45	50
1007156	1007156	1	TRAY 6		45	49
1007155	1007155	1	TRAY 5		45	48
1007154	1007154	1	TRAY 4		45	47
1007153	1007153	1	TRAY 3		45	46
1007152	1007152	1	TRAY 2		45	45
1007151	1007151	1	TRAY 1		45	44
1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
1016889	1016889	10	STUD, SPECIAL		40	41
		2	CDU ASSY		40	40
1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
1000201	1000201	1	IMU ASSY		35	35
1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
1011559	1011559	1	MAP AND DATA VIEWER		15	33
		1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
MS 35337 - 80	MS 35337 - 80	2	WASHER, LOCK		5	30
MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT		5	29
MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD		5	28
1004609	1004609	1	FLANGE		5	27
1004607	1004607	1	BRACKET ANGLE		5	26
1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
		1	GASKET, 360 PIN CONNECTOR		5	24
		1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
		1	SHIELD, STANDBY SWITCH, AGC		5	22
		2	WASHER, FLAT		5	21
		8	SCREW, FLAT HD HEX SOC		5	20
		2	SCREW, FLAT HD HEX SOC		5	19
		1	FRONT CLOSE OUT PANEL		5	18
		1	SUPPORT FRONT PANEL		5	17
		1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
		4	SCREW, SOC HD HEX		5	15
		2	SCREW, SOC HD HEX		5	14
	1003457	1	AGC CONN COVER PLATE		5	13
	1003180	1	AGC TOE PLATE		5	12
1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
AN 104608	AN 104608	4	SCREW, HEX HD		5	10
AN 104606	AN 104606	4	SCREW, HEX HD		5	9
1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
1003189 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
2, 9, 6, 234	6, 25, 234					
25						
-011	-000					
6	5					

Bottom rows at the left edge: ...ATED; ...STANDING ECP'S; ...DASH NO.; ...SYSTEMS

DASH NO.: -121, -121, -111, -101, -071, -091, -081, -051, -041, -061, -031, -021, -011, -000

SYSTEMS: 124, 123, 122, 121, 109, 111, 110, 17, 12, 20, 8, 7, 6, 5

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/1/65	WK
J		REVISED PER TDRR 23203				WK
K		REVISED PER TDRR 23259			10/10/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-19-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	Aug	

REVISIONS TDRR 06407

(H) REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS/A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. A. Jones Sept 13 1965
CHECKED 15 Sept 65
APPROVED T
APPROVED D. HOAG PER TDRR
APPROVED MIT M. C. Mauley 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

1014999 AT

27/1014999

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
56	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5			
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)	
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)	
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE	
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE	
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL	
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD	
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR	
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)	
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY	
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY	
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY	
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY	
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12
								1026014 REV. -							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12
								1026015 REV. A							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12
								1026012 REV. -							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12
								1026035 REV -							1	G & N TO SC POLARITY TEST	SEE NOTE 12
				1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10
				1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10
				1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10
				1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10
										1008268					1	WIRE HARNESS G	SEE NOTE 9
								2018698							1	WIRING HARNESS	
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET	
								1010705 8							1	CLAMP LOOP	
								1010705 - 6							1	CLAMP LOOP	
								1010705 - 5							1	CLAMP LOOP	

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPEC
DIMENSIONS ARE IN INCH
CAPACITOR VALUES ARE I
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

1/1014999

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	WK
J		REVISED PER TDRR 23205			[illegible]	WK
K		REVISED PER TDRR 23259			[illegible]	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-29-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-14-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED	RPB	JI	19 AUG 66	

DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
ITEM #	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	59
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255 - 021	1021255 - 021		1021255 - 011	1021255 - 011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. –							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. A							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. –							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV –							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV –							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV –							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV –							1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
																			136
																			135
																			134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
				1026044 REV –					1026040 REV –						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
				1026046 REV –					1026020 REV –						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV –				1026016 REV -	1026018 REV –	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV –	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
				1026041 REV –				1026004 REV -	1026028 REV –	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
				1026043 REV –				1026003 REV -	1026026 - REV –	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
				1026042 REV –				1026002 REV -	1026027 - REV A	1026007 REV –					1	G & N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV –					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8								CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			11

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED A J [illegible] Oct 5 65
APPROVED
APPROVED D. HOAG per [illegible]
APPROVED MIT W [illegible] 5 Oct 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 AT

2/1014999

QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIN NO.
1	CLAMP LOOP			
1	CLAMP, HINGED LOOP			
2	CLAMP, HINGED LOOP			
1	AIRBORNE AMPLIFIER PLATE ASSY			
1	AIRBORNE VIBRATION ASSY			
1	FLIGHT DATA BOOK	SEE NOTES 4 &		
1	SCREW, SOC HD			
1	BRACKET ASSY, COOLANT			
1	CLAMP, COOLANT LINE			
1	HOSE ASSY, FLEX, OPT TO S/C			
1	HOSE ASSY, FLEX, IMU TO S/C			
1	CLAMP, HINGED LOOP			
1	TRACKER A & [illegible] ASSY			
1	LENS CLEANING KIT		55	
1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6		
1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6		
	[illegible] ASSY			
1	SXT MIRROR HOUSING ASSY			
	SXT EYEPIECE ASSY		65	
1	SCT EYEPIECE ASSY		65	
4	SCREW, SOC HD CAP			
1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS			
2	FRONT [illegible] LOCKOUT PIN ASSY			
6	WASHER, FLAT			
2	BOLT, HEX HD			
1	SNUBBER, REAR (INSEPARABLE) ASSY		65	
1	MOUNT, RESILIENT, REAR		65	
6	SPRING, SEAL RETAINING		65	
2	MOUNT, RESILIENT FRONT		65	
1	SEAL, SXT BELLOWS		65	
1	SEAL, SCT, BELLOWS		65	
3	BOLT, HEX HD		65	
1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	
1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	
1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4		
1	BRACKET CLAMP (INSEPARABLE ASSY)			
1	CLAMP LOOP		56	
1	CLAMP LOOP		56	
1	CLAMP, HINGED LOOP			
1	CLAMP, HINGED LOOP		56	
3	CLAMP, HINGED LOOP	SEE NOTE 5		
1	CLAMP, HINGED LOOP		56	
5	CLAMP, HINGED LOOP			
1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE		
1	LONG HANDLE, G&N PANEL			
1	SHORT HANDLE, G&N PANEL			
1	OPTICS COVER ASSY			
1	OPTICS SHROUD ASSY		50	
1	CONTROL ELECTRONICS ASSY			
1	IMU CONTROL PANEL ASSY		50	
1	D&C ELECTRONICS ASSY		50	
1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	
				57
6	SCREW REWORKED		45	
1	TOE CAP		45	
1	TRAY 10			
1	TRAY 9		45	53
1	TRAY 8			52
1	SHORTING PLUG			
1	TRAY 7			50
1	TRAY 6			49
1	TRAY 5			
1	TRAY 4			47
1	TRAY 3			
1	TRAY 2			45
1	TRAY 1			44
	POWER AND SERVO ASSY	REFERENCE		43
10	NUT, SPECIAL STUD			
10	STUD, SPECIAL			
2	CDU ASSY			
5	CDU ASSY			39
1	CDU PANEL ASSY			
1	CDU FRAME ASSY	SEE NOTE 4		37
	CDU AND PANEL ASSY	REFERENCE		36
1	IMU ASSY			
1	SIGNAL CONDITIONER ASSY		30	34
1	MAP AND DATA VIEWER			33
1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	
1	AGC MAIN DSKY		5	
2	WASHER, LOCK		5	
2	WASHER, FLAT		5	
2	SCREW, SOC HD		5	
1	FLANGE		5	27
1	BRACKET ANGLE		5	
1	AGC NAV DSKY	SEE NOTE 4	5	25
1	GASKET, 360 PIN CONNECTOR		5	24
1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1	SHIELD, STANDBY SWITCH, AGC		5	22
2	WASHER, FLAT		5	
8	SCREW, FLAT HD HEX SOC		5	20
2	SCREW, FLAT HD HEX SOC		5	19
1	FRONT CLOSE OUT PANEL		5	18
1	SUPPORT FRONT PANEL		5	
1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	
4	SCREW, SOC HD HEX		5	
2	SCREW, SOC HD HEX		5	14
1	AGC CONN COVER PLATE		5	13
1	AGC TOE PLATE		5	12
4	SCREW, FLAT HD HEX SOC		5	
4	SCREW, HEX HD		5	
4	SCREW, HEX HD		5	
4	BRACKET, COMP END CONN UPPER BRACE		5	
14	SCREW, FLAT HD HEX SOC		5	
1	AGC END CONNECTOR ASSY		5	
1	G&N HARNESS TRAY ASSY		5	
1	MEMORY TRAY B ASSY		5	4
1	LOGIC TRAY A ASSY		5	3
1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	
	APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	

INCORPORATED ECP'S												2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234
OUTSTANDING ECP'S	174, 209, 202, 290	[illegible], 09, 174, 290	202, 174, 209, 290	80, 174, 202, 327	174, 2[illegible], 269, 232, 290, 2[illegible]	80, 354, 174, 202, 206, 209, 211, 206, 267, 268, 269, 290, 327	174, 202, 209, 80, 290, 327	290	80, [illegible], 292, 29[illegible], 32[illegible]	80, 174, 202, 246, 290, 327, [illegible]	09, 111, 114, 130, 147, 175, 224	111, 114	25	
CONFIGURATION DASH NO.	-1[illegible]1	-1[illegible]1	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS [illegible], 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZE SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N [illegible].
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. [illegible]
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. [illegible] TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED

NEXT ASSY | USED ON

APPLICATION

1/1014999

QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
1	CLAMP LOOP			110
1	CLAMP, HINGED LOOP			109
2	CLAMP, HINGED LOOP			108
1	AIRBORNE AMPLIFIER PLATE ASSY			107
1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
1	FLIGHT-DATA BOOK		55	105
1	SCREW, SOC HD		55	104
1	BRACKET ASSY, COOLANT		55	103
1	CLAMP, COOLANT LINE		55	102
1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1	HOSE ASSY, FLEX, M TO S/C		55	100
1	CLAMP, HINGED LOOP		55	99
1	TRACKER X & Y ASSY		55	98
1	LENS CLEANING KIT		55	97
1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
1	SCT PRISM HOUSING ASSY		65	94
1	SXT MIRROR HOUSING ASSY		65	93
1	SXT EYEPIECE ASSY		65	92
1	SCT EYEPIECE ASSY		65	91
4	SCREW, SOC HD CAP		65	90
1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
6	WASHER, FLAT		65	87
2	BOLT, HEX HD		65	86
1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1	MOUNT, RESILIENT, REAR		65	84
6	SPRING, SEAL RETAINING		65	83
2	MOUNT, RESILIENT FRONT		65	82
1	SEAL, SXT BELLOWS		65	81
1	SEAL, SCT, BELLOWS		65	80
3	BOLT, HEX HD		65	79
1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1	CLAMP LOOP		56	74
1	CLAMP LOOP		56	73
1	CLAMP, HINGED LOOP		56	72
1	CLAMP, HINGED LOOP		56	71
3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1	CLAMP, HINGED LOOP		56	69
5	CLAMP, HINGED LOOP		56	68
1	G&N HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE	56	67
1	[illegible] PANEL		50	66
1	SHORT HANDLE, G&N PANEL		50	65
				64
1	OPTICS COVER ASSY		50	63
1	[illegible] ASSY		50	62
1	[illegible] ASSY		50	61
1	IMU CONTROL PANEL ASSY		50	60
1	G&N [illegible] ASSY		50	59
1	G&N NAVIGATION AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
				57
6	SCREW [illegible]		45	56
1	[illegible]		45	55
1	TRAY 10		45	54
1	TRAY 9		45	53
1	TRAY 8		45	52
1	SHORTING PLUG		45	51
1	TRAY 7		45	50
1	TRAY 6		45	49
1	TRAY 5		45	48
1	TRAY 4		45	47
1	TRAY 3		45	46
1	TRAY 2		45	45
1	TRAY 1		45	44
	POWER AND SERVO ASSY	REFERENCE	45	43
10	NUT, SPECIAL STUD		40	42
10	STUD, SPECIAL		40	41
2	CDU ASSY		40	40
5	CDU ASSY		40	39
1	CDU PANEL ASSY		40	38
1	CDU FRAME ASSY	SEE NOTE 4	40	37
	CDU AND PANEL ASSY	REFERENCE	40	36
1	IMU ASSY		35	35
1	SIGNAL CONDITIONER ASSY		30	34
1	MAP AND DATA VIEWER		15	33
1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1	AGC MAIN DSKY		5	31
2	WASHER, LOCK		5	30
2	WASHER, FLAT		5	29
2	SCREW, SOC HD		5	28
1	FLANGE		5	27
1	BRACKET ANGLE		5	26
1	AGC NAV DSKY	SEE NOTE 4	5	25
1	GASKET, 360 PIN CONNECTOR		5	24
1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1	SHIELD, STANDBY SWITCH, AGC		5	22
2	WASHER, FLAT		5	21
8	SCREW, FLAT HD HEX SOC		5	20
2	SCREW, FLAT HD HEX SOC		5	19
1	FRONT CLOSE OUT PANEL		5	18
1	SUPPORT FRONT PANEL		5	17
1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
4	SCREW, SOC HD HEX		5	15
2	SCREW, SOC HD HEX		5	14
1	AGC CONN COVER PLATE		5	13
1	AGC TOE PLATE		5	12
4	SCREW, FLAT HD HEX SOC		5	11
4	SCREW, HEX HD		5	10
4	SCREW, HEX HD		5	9
4	BRACKET, COMP END CONN UPPER BRACE		5	8
14	SCREW, FLAT HD HEX SOC		5	7
1	AGC END CONNECTOR ASSY		5	6
1	G&N HARNESS TRAY ASSY		5	5
1	MEMORY TRAY B ASSY		5	4
1	LOGIC TRAY A ASSY		5	3
1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1

DASH NO.	-1.1	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			1/4/65	WK
J		REVISED PER TDRR 23203			9/13/65	WK
K		REVISED PER TDRR 23259			10/1/65	WK
L		REVISED PER TDRR 23502			10/ /65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24156	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		~~12-3-65~~	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	W
U		REVISED PER TDRR 24792	RAJ		12-2 -65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26806			3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933			4-13-66	MSM
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28667	"		5-24-66	MSM
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	3 AUG 66	
AU		REVISION STATUS CHANGED	GW	JI	17 AUG 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS [illegible] 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES [illegible] TO CONFORM TO BUNDLE DIAMETERS. 20 CLAMPS, 1010400-4 (FIND NO.108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-[illegible].
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. [illegible] FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R. A. Jones Sept 13 1965
CHECKED 13 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT
APPROVED MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 1 OF 2

1014999 AU

2/1014999

10 9 8 7 6 5 4 3

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
5[illegible]	CASE AND PANEL [illegible]	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
3[illegible]	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	[illegible] THRU [illegible]5
[illegible]	G&N INDICATOR & CONTROL PANEL ASSY	[illegible]
[illegible]	NAV BASE & OPTICAL UNIT ASSY	77 THRU [illegible]
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU [illegible]5
37	CDU FRAME ASSY	[illegible] AND 42
25	AGC NAV DSKY	22 THRU 30
[illegible]	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

-121	-121	-111	-101	-071	-091	-081	-051	-041	061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	[illegible]	FIND NO.
									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
1017577	1017577	1017577	1017577			1017577		1017577							RETAINER, SCREW (BOT)		40	162
1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
1021289-3	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40	160
1021289-4	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40	159
1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
[illegible]	NAS1352C04LL6	[illegible]	[illegible]			[illegible]		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	[illegible]
[illegible]	1021305	[illegible]	[illegible]			[illegible]		1021305						10	SEAL, CONNECTOR		40	156
[illegible]	1021299	[illegible]	[illegible]			[illegible]		1021299						1	PANEL (INSEP. ASSY)		40	[illegible]
[illegible]	1021303-011	[illegible]	[illegible]			[illegible]		1021303-011						1	FRAME [illegible] ASSY		40	[illegible]
[illegible]	1015500-051	[illegible]	[illegible]			[illegible]								2	[illegible] ASSEMBLY		40	153
[illegible]	1015500-041	[illegible]	1015500-041			[illegible]-041		1015500-041						3	[illegible] ASSEMBLY		40	[illegible]
[illegible]	1021302-011	[illegible]	[illegible]			[illegible]		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	4	[illegible]
[illegible]-011	1021304-011	1021304-011	[illegible]-011			[illegible]-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	4	[illegible]
							1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11		[illegible]
1021255-021	1021255-021	1021255-021	1021255-021		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		42	[illegible]
																		147
																		146
							1026034 REV A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	[illegible]	145
							1026014 REV -							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	[illegible]	144
							1026015 REV A							1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	[illegible]	143
							1026012 REV B							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	[illegible]	142
							1026011 REV A							1	G&N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							102602[illegible] REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -							1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
																		136
							1026048 REV -							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																		133
																		132
																		131
																		130
																		129
																		128
																		127
			1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
			1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							102600[illegible] REV -	1026038 REV -	10260[illegible] REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
			1026041 REV -				102600[illegible] REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
			1026043 REV -				1026003 REV -	1026026 REV -	10260[illegible]8 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	[illegible]
			1026042 REV -				1026002 REV	1026027 REV A	1026007 REV					1	G&N POLARITY TEST	SEE NOTE 10	55	[illegible]
							1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	[illegible]
									1008258					1	WIRE HARNESS G	SEE NOTE 9		[illegible]
							2 THESE								WIRING HARNESS			[illegible]
							100[illegible]4-6 76							2	SCREW, BUTTON HD. SPLINE SOCKET			[illegible]
							[illegible]705-6								CLAMP LOOP			11[illegible]
							00705-6							1	CLAMP LOOP			11[illegible]
							00705-5							1	CLAMP LOOP			[illegible]
CONFIGURATION DASH NO. -121	-121	-111	-101	-071	-091	-081	-051	-041	061	-031	-021	-011	-001					
G&N SYSTEMS 124	123	122	121	109	111	110	17	12	20	8	7	6	5					

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY	USED ON
APPLICATION	

10 9 8 7 6 5 4 3

1/1014999

REVISIONS 407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22204			10/5/65	WR
J		REVISED PER TDRR 23203				WR
K		REVISED PER TDRR 23259			10/19/65	WR
L		REVISED PER TDRR 23502				WR
M		REVISED PER TDRR 23620	RAJ		11-2-65	WR
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WR
T		REVISED PER TDRR 24674	RAJ		12-14-65	WR
U		REVISED PER TDRR 24792	RAJ		12-20-65	WR
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WR
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WR
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WR
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WR
AB		REVISED PER TDRR 26620	"		2-23-66	WR
AC		REVISED PER TDRR 2682	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WR
AE		REVISED PER TDRR 27175	"		3-15-66	WR
AF		REVISED PER TDRR 27353	"			WR
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED 27933	"			
AJ		REVISED PER TDRR 28206	"		4-28-66	WR
AK		REVISED PER TDRR 28374	"		5-3-66	
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED	RPB	JI	3-AUG-66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	

DA - NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	061	-031	-021	-011	-001	QTY	NOMENCLATURE OR DESCRIPTION	REMARKS	ENG P. CODE	FIND NO.
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289-3	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289-4	1021289 4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303-011	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY		40	154
	1015500-051	1015500-051	1015500-051	1015500-051			1015500-051								2	[illegible] ASSEMBLY		40	153
	1015500-041	1015500-041	1015500-041	1015500-041			1015500-041		1015500-041						3	[illegible] ASSEMBLY		40	152
	1021302-011	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304-011	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11		149
	1021255-021	1021255-021	1021255-021	1021255-021		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. -							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	5	145
								1026014 REV. -							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV -							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. B							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV. -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -							1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
																			136
								1026048 REV -							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
				1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
				1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
				1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
				1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV					1	G & N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2 THESE							1	WIRING HARNESS			115
								100496 -7							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								100705 -8								CLAMP LOOP			113
								100705 -6							1	CLAMP LOOP			112
								100705 -5							1	CLAMP LOOP			111
Y	124	23	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R. A. Jones Oct 4 1965
CHECKED
APPROVED
APPROVED D HOAG for J.D.C. WR
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 AU

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								1010705-4							1	CLAMP LOOP	
								1010400-9							1	CLAMP, HINGED LOOP	
								1010400-4							2	CLAMP, HINGED LOOP	
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
								2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
															1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	100159	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400-7	1010400-5	1010400 -	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
															1	LENS CLEANING KIT	
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
	2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
	2011932	2011932	2011932	2012700	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2011960	2011960	2011960	20127 9	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS	
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950-141	1899950-141	1899950-151	1899950-151	1899950-061	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP - (INSEPARABLE ASSY)	
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
					1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
					1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (9)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5
					1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
					1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
	1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL	
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY	
	1014664-021	1014664-021	1014664-021	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10	
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG	
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4
	1003707-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
														1003457	1	AGC CONN COVER PLATE	
														1003180	1	AGC TOE PLATE	
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
													AN 104608	AN 104608	4	SCREW, HEX HD	
													AN 104606	AN 104606	4	SCREW, HEX HD	
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
													1003189-011	1003189	1	AGC END CONNECTOR ASSY	
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY	
													1003493-011	1003184	1	MEMORY TRAY B ASSY	
													1003488-011	1003187	1	LOGIC TRAY A ASSY	
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770-091	1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-131	1003770-1.1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 173, 266, 268, 269, 219, 211, 206, 232, 169, 354, 338, 348	171, 60, 234, 180, 265, 182, 267, 270, 206, 211, 29, 183, 225, 240, 243, 246, 184, 187, 89, 207, 252, 295, 169, 175, 266, 268, 269, 209, 232, 354, 290	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 295	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, [illegible], 285, 175, 232, 183, 184, 187, 354, 169	25, 84, 177, 147, 109, 111, [illegible], 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, [illegible], 30	177, 147, 111, 114, 171, 130, 84, 82 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 205, 234, 169, 354, 269	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP's	175, 174, 209, 202, 290	202, 209, 174, 290	202, 174, 209, 290	80, 174, 202, 327	174, 211, 269, 232, 290, 202, 206	80, 354, 174, 202, 206, 209, 211, 267, 268, 269, 290, 327	174, 202, 209, 80, 290, 327	290	80, 173, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25				
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 7?, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

ND 1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN
TOLERANCES ON
FRACTIONS DECIMALS
± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

1/1014999

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-7	1010400-5	1010400-[illegible]	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011766	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	1013009	1013009	1011785-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2012700	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2012719	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	8
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-141	1899950-141	1899950-151	1899950-151	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP - (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
					1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
					1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
					1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-021	1014664-021	1014664-021	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																			57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
RATED 'S	206,225,232,234,240, 243,246,265,266,267, 268,269,270,354,169	206,225,232,234,240, 243,246,265,266,267, 268,269,270,180,169, 354,175	234,180,225,240,182, 243,246,267,270,183, 265,184,187,189,295,175, 266,268,269,219,211, 206,232,169,354,[illegible]	171,60,234,180,265, 182,267,270,206,211,219, 183,225,240,243,246, 184,[illegible], 169,175,266,268,269, 209,232,354,290	234,225,123,175,180, 182,183,184,187,189, 207,252,295	169,171,175,180,182, 183,184,187,189,207, 123,232,234,240,243, 246,252,265, 295	171,234,206,246,240, 265,225,267,268,243, 266,269,270,182,189, 211,285,175,232,183, 184,187,354,169	25,84,177,147,109,111, 114,171,182,183,184, 185,186,187,188,189, 190,195,208,212,175, 180,137,246,251,266, 232,206,234,30	177,147,111,114,171,130,84, 182 THRU 190,195,37, 208,212,175,25,83,232, 160,219,246,240,265, 277,211,165,250,253,268, 266,180,206,234,169, 354,269	20,63,96,177,25,234, 116,160,111,114,109, 147,182,183,185,187, 188,195,208,212,171, 223,189,184,169,130, 159,180,175,206	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
NDING 'S	174,209,202,290	202,209,174, 290	202, 174,209,290	80 174 202 327	174,211,269,232, 290,202, 206	80, 354, 174,202,206,209,211, 267,268,269,290,327	174, 202,209,80,290,327	290	80,174,202,290,327	80,174, 202,246,290,327,328	109,111, 114,130,147,175,224	111,114	25						
ION DAS NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
STEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TIK6 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/4/65	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/20/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-21-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
X		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26806	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	3 AUG 66	
AU		REVISION STATUS CHANGED	GW	JI	11 AUG 66	
AV		REVISED PER TDRR 30589	RLW	JI	18 AUG 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
NO 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN E.A. Jones
CHECKED
APPROVED
APPROVED D. Hoag
PER TDRR
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO 80230 SIZE J DRAWING NO. 1014999

SCALE — SHEET 1 OF 2

2/1014999

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
5	CASE AND PANEL ASSY, CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
[illegible]	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5			
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 1
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 1
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 1
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 1
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 1
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 1
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 1
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)	
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)	
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE	
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE	
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL	
	NAS1352C04LL6	NAS 1352 C04 LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD	
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR	
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)	
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY	
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY	
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY	
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE [illegible]
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY	
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12
								1026014 REV. -							1	G & N ALARMS AND INTERRUPT TEST	SEE NOTE 12
								1026015 REV. A							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12
								1026012 REV. B							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12
								1026035 REV -							1	G & N TO SC POLARITY TEST	SEE NOTE 12
								1026048 REV -							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12
				1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10
				1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10
				1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10
				1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV					1	G & N POLARITY TEST	SEE NOTE 10
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10
										1008258					1	WIRE HARNESS G	SEE NOTE 9
								2018858							1	WIRING HARNESS	
								1004496 - 76							2	SCREW, BUTTON HD, SPLINE SOCKET	
								1000705 - 8								CLAMP LOOP	
								1000705 - 6							1	CLAMP LOOP	
								1000705 - 5							1	CLAMP LOOP	

UNLESS OTHERWISE S
DIMENSIONS ARE IN IN
CAPACITOR VALUES ARE
RESISTOR VALUES ARE
TOLERANCES ON
FRACTIONS DECIMAL
DO NOT SCALE THIS D
MATERIAL

NEXT ASSY	USED ON
APPLICATION	

1/1014999

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22204			10/7/65	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-29-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	MCM
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		[illegible]	WK
AG		REVISED PER TDRR 27751	"		4-5-66	MCM
AH		REVISED PER TDRR 27933	"		[illegible]	MCM
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	MCM
AM		REVISED PER TDRR 28867	"		5-24-66	MCM
AN		REVISED PER TDRR 29164	"		5-31-66	MCM
AP		REVISED PER TDRR 29188	"		6-9-66	MCM
AR		REVISED PER TDRR 29362	"		6-13-66	MCM
AS		REVISED PER TDRR 29716	"		6-29-66	MCM
AT		REVISION STATUS CHANGED	RPB	JI	9 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	

DAS NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
[illegible]	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 51						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11		149
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. A							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. A							1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. B							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 2	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -							1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
																			136
								1026048 REV -							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
				1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
				1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
				1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
				1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV					1	G&N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2016898							1	WIRING HARNESS			115
								1004496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 - 8								CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R A Jones Oct 4 1965
CHECKED A J Lang
APPROVED
APPROVED D HOAG for your WK
APPROVED MIT W Cuff
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

2/1014999

-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
							1010705-4							1	CLAMP LOOP	
							1010400-9							1	CLAMP, HINGED LOOP	
							1010400-4							2	CLAMP, HINGED LOOP	
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
1010400-7	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
														1	LENS CLEANING KIT	
2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011766	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	1013009	1013009	1011785-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
2011932	2011932	2011932	2012700	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
2011960	2011960	2011960	2012719	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD	
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS	
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS	
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
1899973	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
1899950-141	1899950-141	1899950-151	1899950-151	1899950-061	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL	
2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL	
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY	
1014664-021	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10	
1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007459-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG	
1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4
1003707-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE	
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003180	1	AGC TOE PLATE	
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
												1003189-011	1003189	1	AGC END CONNECTOR ASSY	
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY	
												1003493-011	1003184	1	MEMORY TRAY B ASSY	
												1003488-011	1003187	1	LOGIC TRAY A ASSY	
1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	[illegible]	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
1003770-091	1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-[illegible]	1003770-131	1003770-131	1003770-1.1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE

	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
INCORPORATED ECP's	206 225 232 234 240 243, 246, 265, 266, 267, 268, 269, 270, 354, 169	206 225 232 234 240 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209	234 180 225, 240, 182 243, 246, 267, 270, 183, 265, 184, 187, 189, [illegible] 175 266, 268, 269, 219, 211, 206, 232, 169, 354, 338, 340 209,	171, 60, 234, 180, 265, 182, 267, 270, 206, 211, 229, 183, 225, 240, 243, 246, 184, [illegible] 159, [illegible] 266, 268, 269, 209, 232, 354, 290	234, 225, 123, 175, 180, 182, 83, 184, 187, 189, 207, 252, 295	169, 71, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 295	171, [illegible] 175, 232, 183, [illegible] 187, [illegible] 69	[illegible] 77, 37, 109, 111, [illegible] 82, 83, 184, 85, 186, 87, 88, 89, 90, 95, 208, 212, [illegible] 180, 37, 246, 251, 266, [illegible]	177, 142, 11, 14, 171, 30, 84, 62 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 272, 211, 165, 250, 253, 268, 266, 180, [illegible] 234, 169, 354, 269	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 165, 130, [illegible]	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234
OUTSTANDING ECP's	175, 74, 209, 202, 290	202, 174, 290	202, 174, 290	180, 174, 202, 327	174, 211, 269, 232, 290, 202, 206	80, 354, 174, 202, 206, 209, 211, 267, 269, 290, 327	174, 202, 209, [illegible] 290, 327	290	80, 173, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25	
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 77, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. [illegible]) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING.
MATERIAL

NEXT ASSY	USED ON
APPLICATION	

1/1014999

-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705 - 4							1	CLAMP LOOP			110
							1010400 - 9							1	CLAMP, HINGED LOOP			109
							1010400 - 4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734 - 001	1011734 - 001	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY		65	94
2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786 - 001	1013009	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
2011932	2011932	2011932	2012700	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2011960	2011960	2011960	2012719	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8		4	SCREW, SOC HD CAP		65	90
1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950 - 141	1899950 - 141	1899950 - 151	1899950 - 151	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
				1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
				1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764 - 021	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL		50	66
2014764 - 011	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL		50	65
																		64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
1014664 - 021	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1005727	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
1003707 - 031	1003563 - 031	1003563 - 031	1003563 - 031	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003564 - 021	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003706 - 031	1003570 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
												1003189 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770 - 091	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1

	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
ORATED P'S	[illegible], 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 89, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 335, 348, 209,	171, 60, 234, 180, 265, 182, 267, 270, 206, 211, 29, 183, 225, 240, 243, 246, 184, [illegible], 69, [illegible], 266, 268, 269, 209, 232, 354, 290	234, 225, 123, 175, 180, 182, 83, 184, 187, 189, 207, 252, 295	169, 71, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 295	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 21, 185, 175, 232, 183, 184, 187, 354, 169	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 88, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, [illegible], 30	177, 147, 111, 114, 171, 130, 84, 82 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, [illegible], 234, 169, 354, 269	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 138, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, [illegible], 206	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234
TANDING P'S	175, 74, 209, 202, 290	202, 174, 290	202, 174, 290	180, 174, 202, 327	174, 211, 269, 232, 290, 202, 206	80, 354, 174, 202, 206, 209, 211, 267, 269, 290, 327	174, 202, 209, 80, 290, 327	290	80, 174, 202, 290, 327	80, 174, 202, 246, 290, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25	
DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
STEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5

REVISIONS TDRC 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/5/65	WK
J		REVISED PER TDRR 23203			10/12/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24677	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26806	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28667	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	5 AUG 66	
AU		REVISION STATUS CHANGED	GW	JI	17 AUG 66	
AV		REVISED PER TDRR 30589	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	31 AUG 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 000000
NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones Sep 13 1965
CHECKED 15 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 1 OF 2

AW 1014999

2/1014999

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUI CODE
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5				
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
								1026034 REV. C							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
								1026014 REV. -							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
								1026015 REV. B							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
								1026012 REV. A							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
								1026035 REV -							1	G & N TO SC POLARITY TEST	SEE NOTE 12	55
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
								1026048 REV -							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
				1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
				1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
				1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
				1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
										1008268					1	WIRE HARNESS G	SEE NOTE 9	
								2018898							1	WIRING HARNESS		
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
								1010705 8							1	CLAMP LOOP		
								1010705 - 6							1	CLAMP LOOP		
								1010705 - 5							1	CLAMP LOOP		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANG
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

1/1014999

REVISIONS 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/4/65	WK
J		REVISED PER TDRR 23209			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		~~REVISED PER TDRR 24772~~	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	WK
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	WK
AH		REVISED PER TDRR 27933	"		4-13-66	WK
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	WK
AM		REVISED PER TDRR 28867	"		5-24-66	WK
AN		REVISED PER TDRR 29164	"		5-31-66	WK
AP		REVISED PER TDRR 29188	"		6-9-66	WK
AR		REVISED PER TDRR 29362	"		6-13-66	WK
AS		REVISED PER TDRR 29716	"		6-29-66	WK
AT		REVISION STATUS CHANGED	RPS	JI	17 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	

IGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G N SYST MS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	60
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04LL6			NAS 1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. C							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. B							1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. A							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -							1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
								1026047 REV -							1	ACE-G & N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
								1026048 REV -							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
				1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
				1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
				1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
				1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			11

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED
APPROVED
APPROVED D. HOAG FOR JBOR WK
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2

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								1010705-4							1	CLAMP LOOP	
								1010400-9							1	CLAMP, HINGED LOOP	
								1010400-4							2	CLAMP, HINGED LOOP	
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
								2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
															1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400-7	1010400-5	1010400-	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
															1	LENS CLEANING KIT	
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
	2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
	2011932	2011932	2011932	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2011960	2011960	2011960	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS	
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT, BELLOWS	
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950-141	1899950-41	1899950-151	1899950-151	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
					1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
					1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (5)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5
					1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
					1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
	1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	4606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-02						1	LONG HANDLE, G&N PANEL	
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY	
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-10	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY	
	1014664-021	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	[illegible]	1007160	1007160	1007160	1007256-011	1	TRAY 10	
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG	
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-04	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4
	1003707-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
	MS 6995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
														1003457	1	AGC CONN COVER PLATE	
														1003180	1	AGC TOE PLATE	
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
													AN 104608	AN 104608	4	SCREW, HEX HD	
													AN 104606	AN 104606	4	SCREW, HEX HD	
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
													1003189-011	1003189	1	AGC END CONNECTOR ASSY	
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY	
													1003493-011	1003184	1	MEMORY TRAY B ASSY	
													1003488-011	1003187	1	LOGIC TRAY A ASSY	
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-011	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770-091	1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169, 290	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290	234, 160, 225, 240, 182, 243, 246, 267, 270, 183, 245, 184, 187, 189, [illegible], 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 335, 348, 209, 290	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, [illegible], 169, 175, 266, 268, 269, 209, 232, 354, 290	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295	171, 234, 206, 246, 241, 225, 264, 248, 243, 266, 269, 270, 182, 189, 211, 265, 175, 232, 183, 184, 187, 354, 69, 290	25, 84, 177, 147, 109, 111, [illegible], 82, 83, 184, 85, 186, 87, 88, 189, 90, 195, 208, 212, 175, 180, 37, 246, 251, 266, [illegible], 290	177, 147, 111, 114, 171, 130, 84, 82 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible], 69, 290, [illegible], 269	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, [illegible], 290	2, TD203, 234	2, CO17, 234	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP's	175, 174, 209, 202,	202, 174,	202, 174,	80, 174, 202, 327	174, 211, 269, 232, 202, 206	80, 354, 174, 202, 206, 209, 211, 267, 269, 327	174, 202, 209, 80, 327		80, 174, 202, 327	80, 174, 202, 246, 327, 328	109, 111, 114, 130, 147, 175, 224	111, 114	25				
CONFIGURATION DASH NO.	-131	-121	-171	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS [illegible], 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN
TOLERANCES ON
FRACTIONS DECIMALS
± ±
DO NOT SCALE THIS
MATERIAL

NEXT ASSY | USED ON
APPLICATION

1/1014999

-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
			1	CLAMP LOOP			110
			1	CLAMP, HINGED LOOP			109
			2	CLAMP, HINGED LOOP			108
			1	AIRBORNE AMPLIFIER PLATE ASSY			107
			1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
			1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400-7			1	CLAMP, HINGED LOOP		55	99
			1	TRACKER X & Y ASSY		55	98
			1	LENS CLEANING KIT		55	97
1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
NAS1352C06-8	NAS1352C06-8		4	SCREW, SOC HD CAP		65	90
1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN960C516L	AN960C516L	AN960C516L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899954-002	1	SEAL, SXT, BELLOWS		65	81
1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
			1	CLAMP LOOP		56	74
1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
			1	LONG HANDLE, G & N PANEL		50	66
			1	SHORT HANDLE, G & N PANEL		50	65
							64
1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1007059	SK44633	SK44633	1	D & C ELECTRONICS ASSY		50	59
1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
							57
1008591	1008591	1008591	6	SCREW REWORKED		45	56
1008135	1008135	1008135	1	TOE CAP		45	55
1007160	1007160	1007256-011	1	TRAY 10		45	54
1007159	1007159	1007159	1	TRAY 9		45	53
1007271	1007158	1007158	1	TRAY 8		45	52
1007163	1007114	1007114	1	SHORTING PLUG		45	51
1007270	1007157	1007157	1	TRAY 7		45	50
1007269	1007156	1007156	1	TRAY 6		45	49
1007268	1007155	1007155	1	TRAY 5		45	48
1007262	1007154	1007154	1	TRAY 4		45	47
1007260	1007153	1007153	1	TRAY 3		45	46
1007152	1007152	1007152	1	TRAY 2		45	45
1007151	1007151	1007151	1	TRAY 1		45	44
1007267	1007160	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
AN365D-440	AN365D-440	AN365D-440	10	NUT, SPECIAL STUD		40	42
1016889	1016889	1016889	10	STUD, SPECIAL		40	41
			2	CDU ASSY		40	40
1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1000201	1000201	1000201	1	IMU ASSY		35	35
1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
MS35337-80	MS35337-80	MS35337-80	2	WASHER, LOCK		5	30
MS15795-807	MS15795-807	MS15795-807	2	WASHER, FLAT		5	29
MS16995-26	MS16995-26	MS16995-26	2	SCREW, SOC HD		5	28
1004609	1004609	1004609	1	FLANGE		5	27
1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS15795-808			2	WASHER, FLAT		5	21
1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730			1	SUPPORT FRONT PANEL		5	17
1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS16996-10			4	SCREW, SOC HD HEX		5	15
MS16996-13			2	SCREW, SOC HD HEX		5	14
		1003457	1	AGC CONN COVER PLATE		5	13
		1003180	1	AGC TOE PLATE		5	12
	1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
	AN104608	AN104608	4	SCREW, HEX HD		5	10
	AN104606	AN104606	4	SCREW, HEX HD		5	9
	1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
	1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
	1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
	1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
	1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
	1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
2, 2017, 234	2, 9, 6, 234	6, 25, 234		ECP'S			
111, 114	25			STANDING ECP'S			
-021	-011	-000		DASH NO.			
7	6	5		SYSTEMS			

Dash numbers -131, -121, -171, -101, -071, -091, -081, -051, -041, -061, -031 (systems 124, 123, 122, 121, 109, 111, 110, 17, 12, 20, 8).

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/5/65	WK
J		REVISED PER TDRR 23203			10/12/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-29-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		~~REVISED PER TDRR 27751~~	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28667	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	3 AUG 66	
AU		REVISION STATUS CHANGED	GW	JI	17 AUG 66	
AV		REVISED PER TDRR 30589	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	31 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	5 SEPT 66	

TDRR 36407

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 50 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO.108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R.A. Jones — Sept 13 1965
CHECKED — 13 Sept 65
APPROVED
APPROVED D. HOAG PER — DRR
APPROVED MIT M. Mueller — 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 1 OF 2

1014999 AY

271014999

NOTICE - [illegible]

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
51	CASE AND PANEL [illegible]	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N IT SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
[illegible]	[illegible] INDICATOR & CONTROL PANEL ASSY	65 AND 66
[illegible]	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

										1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55
										1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
	NAS1352C04LL6	NAS 1352 C04 LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40
	1015500 - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40
	1015500 - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55
	1021255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
								1026034 REV. C							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
								1026014 REV. -							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
								1026015 REV. B							1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
								1026012 REV. A							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
								1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
								1026035 REV -							1	G&N TO SC POLARITY TEST	SEE NOTE 12	55
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
				1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
				1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
				1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
				1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					4	G&N POLARITY TEST	SEE NOTE 10	55
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
										1008268					1	WIRE HARNESS G	SEE NOTE 9	
								2018898							1	WIRING HARNESS		
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
								1010705 8								CLAMP LOOP		
								1010705 -6							1	CLAMP LOOP		
								1010705 -5							1	CLAMP LOOP		
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN [illegible]
RESISTOR VALUES ARE IN [illegible]
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

1/1014999

REVISIONS 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22204			10/7/65	WK
J		REVISED PER TDRR 23203			1-4-	WK
K		REVISED PER TDRR 23259			[illegible]	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-19-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 2682	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-11-66	WK
AF		REVISED PER TDRR 27353	"		[illegible]	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		[illegible]	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED	RPB	JI	8 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	

-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026033 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
[illegible]	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
[illegible] 7576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
[illegible] 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	60
[illegible] 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	59
[illegible]	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
[illegible] 4 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
[illegible]	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
[illegible]	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
[illegible] - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
[illegible] - 051	1015500 - 051	1015500 - 051	1015500 - 051			1015500 - 051								2	CDU ASSEMBLY		40	153
[illegible] - 041	1015500 - 041	1015500 - 041	1015500 - 041			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
[illegible] - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
[illegible] - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	[illegible]	149
C2 255 - 021	1021255 - 021	1021255 - 021	1021255 - 021		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
																		146
							1026034 REV. C							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -							1	G&N ALARMS AND INTERR[illegible] TEST	SEE NOTE 12	55	144
							1026015 REV. B							1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. A							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -							1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																		133
																		132
																		131
																		130
																		129
																		128
																		127
			1026044 REV -					1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
			1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
			1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
			1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
			1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
							1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8								CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 - 5							1	CLAMP LOOP			11
124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R A Jones Oct 4 1965
CHECKED A J [illegible] Oct 5 1965
APPROVED
APPROVED D. HOAG PER TBHR WK
APPROVED MIT [illegible] 6 Oct 65
APPROVED MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 AY

271014999

-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQU P. CODE	FIND NO.
		1	CLAMP LOOP			110
		1	CLAMP, HINGED LOOP			109
		2	CLAMP, HINGED LOOP			108
		1	AIRBORNE AMPLIFIER PLATE ASSY			107
		1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
		1	FLIGHT DATA BOX		5	105
1000010-307	1000010-307	1	SCREW, SOC HD		5	104
1001591	1001591	1	BRACKET ASSY, COOLANT		5	103
1000293	1000293	1	CLAMP, COOLANT LINE		5	102
1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		5	101
1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		5	100
		1	CLAMP, HINGED LOOP		5	99
		1	TRACKER X & Y ASSY		5	98
		1	LENS CLEANING KIT		5	97
1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	6	96
1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6		95
1011734-000	1011734-000		SCT PRISM HOUSING ASSY		6	94
1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		6	93
1011932	1011932	1	SXT EYEPIECE ASSY		6	92
1011960-000	1011960-000	1	SCT EYEPIECE ASSY		6	91
NAS1352C06-8		4	SCREW, SOC HD CAP		6	90
1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		6	89
1899954-011	1899954-011	2	FRONT SNUBBER LOCKOUT PIN ASSY		6	88
AN960C516L	AN960C516L	6	WASHER, FLAT		6	87
1010728-001	NAS 45-11	2	BOLT, HEX HD		6	86
1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		6	85
1899969	1899969	1	MOUNT, RESILIENT, REAR		6	84
1899971	1899971	6	SPRING, SEAL RETAINING		6	83
1899970	1899970	2	MOUNT, RESILIENT FRONT		6	82
1899997-002	1899954-002	1	SEAL, SXT BELLOWS		6	81
1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		6	80
1899980	1899980	3	BOLT, HEX HD		6	79
1899978	1899979	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		6	78
1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		6	77
1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	6	76
1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		5	75
			CLAMP LOOP		5	74
1010705-8	1010705-8	1	CLAMP LOOP		5	73
1010400-8	1010400-8	1	CLAMP, HINGED LOOP		5	72
1010400-7	1010400-7	1	CLAMP, HINGED LOOP		5	71
1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	5	70
1010400-2	1010400-2	1	CLAMP, HINGED LOOP		5	69
1010400-1	1010400-1	5	CLAMP, HINGED LOOP		5	68
1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	5	67
		1	LONG HANDLE, G&N PANEL		5	66
		1	SHORT HANDLE, G&N PANEL		5	65
						64
1014532	1014532	1	OPTICS COVER ASSY		5	63
1014502-011	1014502-011	1	OPTICS SHROUD ASSY		5	62
1015003	1015003	1	CONTROL ELECTRONICS ASSY		5	61
1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		5	60
SK44633	SK44633	1	D&C ELECTRONICS ASSY		5	59
1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	5	58
						57
1008591	1008591	6	SCREW REWORKED		4	56
1008135	1008135	1	TOE CAP		4	55
1007160	1007256-011	1	TRAY 10		4	54
1007159	1007159	1	TRAY 9		4	53
1007158	1007158	1	TRAY 8		4	52
1007114	1007114	1	SHORTING PLUG		4	51
1007157	1007157	1	TRAY 7		4	50
1007156	1007156	1	TRAY 6		4	49
1007155	1007155	1	TRAY 5		4	48
1007154	1007154	1	TRAY 4		4	47
1007153	1007153	1	TRAY 3		4	46
1007152	1007152	1	TRAY 2		4	45
1007151	1007151	1	TRAY 1		4	44
1007200	1007257-011		POWER AND SERVO ASSY	REFERENCE	4	43
AN365D-440	AN365D-440	10	NUT, SPECIAL STUD		4	42
1016889	1016889	10	STUD, SPECIAL		4	41
		2	CDU ASSY		4	40
1015500-011	1015500-011	5	CDU ASSY		4	39
1017538-011	1017538-011	1	CDU PANEL ASSY		4	38
1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	4	37
1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	4	36
1000201	1000201	1	IMU ASSY		35	35
1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
1011559	1011559	1	MAP AND DATA VIEWER		15	33
		1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
MS35337-80	MS35337-80	2	WASHER, LOCK		5	30
MS15795-807	MS15795-807	2	WASHER, FLAT		5	29
MS16995-26	MS16995-26	2	SCREW, SOC HD		5	28
1004609	1004609	1	FLANGE		5	27
1004607	1004607	1	BRACKET ANGLE		5	26
1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
		1	GASKET, 360 PIN CONNECTOR		5	24
		1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
		1	SHIELD, STANDBY SWITCH, AGC		5	22
		2	WASHER, FLAT		5	21
		8	SCREW, FLAT HD HEX SOC		5	20
		2	SCREW, FLAT HD HEX SOC		5	19
		1	FRONT CLOSE OUT PANEL		5	18
		1	SUPPORT FRONT PANEL		5	17
		1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
		4	SCREW, SOC HD HEX		5	15
		2	SCREW, SOC HD HEX		5	14
	1003497	1	AGC CONN COVER PLATE		5	13
	1003190	1	AGC TOE PLATE		5	12
1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
AN104608	AN104608	4	SCREW, HEX HD		5	10
AN104606	AN104606	4	SCREW, HEX HD		5	9
1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
1003197-011	1003197		G&N HARNESS TRAY ASSY		5	5
1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003496-011 MD1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1

CONFIGURATION DASH NO.	G&N SYSTEMS	INCORPORATED ECP'S	OUTSTANDING ECP'S
-131	124	[illegible],225,232,234,240, 243,246,265,266,267, 268,269,270,354,169, 290	175, 174,209,202,
-111	123	205,225,232,234,240, 243,246,265,266,267, 268,269,270,180,169, 354,175,209,290	202,418,174,
-111	122	234,180,225,240, 243,246,267,270, [illegible] 169,354,[illegible] 209,290	202, 174,418
-101	121	171,[illegible] [illegible],290	80 174 202,418 327
-071	109	234,225,123,175,180, 182,183,184,167,189, 207,252,295,290	174,211,269,232, [illegible] 206
-091	111	169,171,175,180,182, 183,184,187,189,207, [illegible],232,234,240,243, 246,252,265,290,295	80, 354 174,202,206,209,211, 267, 269, 327
-081	110	[illegible] 184,187,354,169,290	174 202,209,80, 327
-051	17	258,[illegible],109,111, [illegible],182,183,184, 85,186,87,88,89, [illegible] 425	
-041	12	[illegible] 290	[illegible]
-061	20	[illegible] 223,189,184,169,[illegible]	[illegible]
-031	8	2, TD203, 234	109 111 14,130,147,175,224
-021	7	2, CO17, 234	111, 114
-011	6	2,9,6,234	25
-000	5	6,25,234	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS [illegible] 37, 67, 7[illegible], 58, 106,32,150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
3. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

NEXT ASSY | USED ON

APPLICATION

1/1014999

-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
		1	CLAMP, LOOP			110
		1	CLAMP, HINGED LOOP			109
		2	CLAMP, HINGED LOOP			108
		1	AIRBORNE AMPLIFIER PLATE ASSY			107
		1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
		1	FLIGHT DATA BOOK		55	105
1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293		CLAMP, COOLANT LINE		55	102
1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1	HOSE ASSY, FLEX, [illegible] TO S/C		55	100
		1	CLAMP, HINGED LOOP		55	99
		1	TRACKER X & Y ASSY		55	98
		1	LENS CLEANING KIT		55	97
1011786	1011786	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
1011734-000	1011734-000		SCT PRISM [illegible] ASSY			94
1011766-000	1011766-000	1	SXT MIRROR HOUSING ASSY		65	93
1011932	1011932	1	SXT EYEPIECE ASSY		65	92
1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
NAS1352C06-6		4	SCREW, SOC HD CAP		65	90
1012424		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
1899994-011	1899954-011	2	FRONT STATOR LOCKOUT PIN ASSY		65	88
AN960C516L	AN960C516L	6	WASHER, FLAT		65	87
1010728-001	NAS 45-11	2	BOLT, HEX HD		65	86
1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1014609	1014609	1	BRACKET, CLAMP (INSEPARABLE ASSY)		56	75
		1	CLAMP LOOP		56	74
1010705-8	1010705-8	1	CLAMP LOOP		56	73
1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
		1	LONG HANDLE, G&N PANEL		50	66
		1	SHORT HANDLE, G&N PANEL		50	65
						64
1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014576-011	1014576-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
						57
1008591	1008591	6	SCREW REWORKED		45	56
1008135	1008135	1	TOE CAP		45	55
1007160	1007256-011	1	TRAY 10		45	54
1007159	1007159	1	TRAY 9		45	53
1007158	1007158	1	TRAY 8		45	52
1007114	1007114	1	SHORTING PLUG		45	51
1007157	1007157	1	TRAY 7		45	50
1007156	1007156	1	TRAY 6		45	49
1007155	1007155	1	TRAY 5		45	48
1007154	1007154	1	TRAY 4		45	47
1007153	1007153	1	TRAY 3		45	46
1007152	1007152	1	TRAY 2		45	45
1007151	1007151	1	TRAY 1		45	44
1007 [illegible]	1007251-011		POWER AND SERVO ASSY	REFERENCE	45	43
AN365D-440	AN365D-440	10	NUT, SPECIAL STUD		40	42
1016889	1016889	10	STUD, SPECIAL		40	41
		2	CDU ASSY		40	40
1015500-011	1015500-011	5	CDU ASSY		40	39
1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1000201	1000201	1	IMU ASSY		35	35
1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
1011559	1011559	1	MAP AND DATA VIEWER		15	33
		1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003495-011	1003459-MD2	1	AGC MAIN DSKY		5	31
MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004609	1004609	1	FLANGE		5	27
1004607	1004607	1	BRACKET ANGLE		5	26
1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
		1	GASKET, 360 PIN CONNECTOR		5	24
		1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
			SHIELD, STANDBY SWITCH, AGC		5	22
		2	WASHER, FLAT		5	21
		8	SCREW, FLAT HD HEX SOC		5	20
		2	SCREW, FLAT HD HEX SOC		5	19
		1	FRONT CLOSE OUT PANEL		5	18
		1	SUPPORT FRONT PANEL		5	17
		1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
		4	SCREW, SOC HD HEX		5	15
		2	SCREW, SOC HD HEX		5	14
	1003487		AGC CONN COVER PLATE		5	13
	1003180	1	AGC TOE PLATE		5	12
1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
AN104608	AN104608	4	SCREW, HEX HD		5	10
AN104606	AN104606	4	SCREW, HEX HD		5	9
1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
1003[illegible]-011	1003189	1	AGC END CONNECTOR ASSY		5	6
1003197-011	1003197		G&N HARNESS TRAY ASSY		5	5
1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003496-011 MD1	1003186 MD2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
2,9,6,234	6,25,234					
25						
-011	-000					
6	5					

INCORPORATED ECP'S
OUTSTANDING ECP'S
CONFIGURATION DASH NO.
G&N SYSTEMS

-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
124	123	122	121	109	111	110	17	12	20	8	7	6	5

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR [illegible]			[illegible]	WK
J		REVISED PER TDRR 23[illegible]3			[illegible]	WK
K		REVISED PER TDRR 23257			[illegible]	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-2[illegible]	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26806			3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933			4-[illegible]	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28887	"		5-[illegible]	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	3 AUG 66	
AU		REVISION STATUS CHANGED	GW	JI	17 AUG 66	
AV		REVISED PER TDRR 30589	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818		RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921		RLW	13 SEP 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS [illegible], 58, 06, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO.108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. [illegible] REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED [illegible]
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R.A. Jones Sept 13 1965
CHECKED 13 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT M. Muller 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 1 OF 2

2/1014999

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION [illegible] ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

5	[illegible]ASE AND PANEL [illegible]	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA, [illegible]	99
106	AIRBORNE VIBRATION ASSY	[illegible] THRU 15
[illegible]	[illegible] INDICATOR & CONTROL PANEL ASSY	65 AND [illegible]
[illegible]	NAV BASE & OPTICAL UNIT ASSY	7[illegible] THRU 96
67	ASE HARNESS & PSA END CONNECTOR ASSY	66 THRU 75
37	CDU FRAME ASSY.	4[illegible] AND 42
25	AGC NAV DSKY	26 THRU 30
[illegible]	APOLLO GUIDANCE COMPUTER	3 THRU 24
FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION

TABLE I (SEE NOTE 4)

									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55
									[illegible] REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
									[illegible] REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
									[illegible]					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
	1017577	1017577	1017577	1017577			1017577		1017577							RETAINER, SCREW (BOT)		40
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER. SCREW (TOP)		40
	1021289-3	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE,		40
	1021289-4	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
	1021303-011	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY		40
	1015500-051	1015500-051	1015500-051	1015500-051			[illegible]								2	[illegible] ASSEMBLY		40
	1015500-041	1015500-041	1015500-041	1015500-041			1015500-041		1015500-041						3	[illegible] ASSEMBLY		40
	[illegible]	1021302-011	[illegible]	[illegible]			[illegible]		[illegible]						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
	1021304-011	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	
	1021255-021	1021255-021	1021255-021	1021255-021		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
								1026034 REV. C							1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
								[illegible] REV. -							1	G&N ALARMS AND INTERRUPT TEST	SEE NOTE 12	55
								1026015 REV B							1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
								1026012 REV. A							1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
								[illegible] REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
								[illegible] REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
								1026035 REV -	1026057 REV -						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
				1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
				1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
								[illegible] REV -	1026038 REV -	[illegible] REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
				1026041 REV -				[illegible] REV -	1026028 REV -	[illegible] REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
				[illegible]026043 REV -				[illegible] REV -	1026026 REV -	[illegible] REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
				1026042 REV -				[illegible] REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55
								1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
										1008268					1	WIRE HARNESS G	SEE NOTE 9	
								[illegible]								WIRING HARNESS		
								[illegible]							2	SCREW, BUTTON HD. SPLINE SOCKET		
								[illegible]705-8								CLAMP LOOP		
								100705-6							1	CLAMP LOOP		
								100705-5							1	CLAMP LOOP		
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-0[illegible]	-0[illegible]	-051	-041	0[illegible]1	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

1/1014999

								1010705-4							1	CLAMP LOOP		
								1010400-9							1	CLAMP, HINGED LOOP		
								1010400-4							2	CLAMP, HINGED LOOP		
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY		
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5	
															1	FLIGHT-DATA BOOK		55
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55
	1010400-7	1010400-5	1010400-[illegible]	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55
															1	LENS CLEANING KIT		55
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65
	2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65
	2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65
	2011932	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65
	2011960	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		55
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65
	1899950-141	1899950-141	1899950-211	1899950-151	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56
					1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56
					1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (5)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56
					1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56
					1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56
	1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014626-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-10	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50
	1014664-021	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		4
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		4
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		4
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		4
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		4
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		4
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		4
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		4
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		4
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007160	1007257-011		POWER AND SERVO ASSY	REFERENCE	4
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		4
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		4
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		4
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		4
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		4
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	4
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	4
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15
	1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55
	1003707-031	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5
	1003706-031	1003706-041	1003706-031	1003706-041	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5
														1003457	1	AGC CONN COVER PLATE		
														1003180	1	AGC TOE PLATE		
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		
													AN 104608	AN 104608	4	SCREW, HEX HD		
													AN 104606	AN 104606	4	SCREW, HEX HD		
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		
													1003189-011	1003189	1	AGC END CONNECTOR ASSY		
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		
													1003493-011	1003184	1	MEMORY TRAY B ASSY		
													1003488-011	1003187	1	LOGIC TRAY A ASSY		
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-0[illegible]1	1003565-011	1003565-011	1003565-03	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	
	1003770-091	1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-131	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	
INCORPORATED ECP's	[illegible], 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169, 290	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441	234, 180, 225, 240, 243, 246, 267, 270, 265, 184, 187, 189, [illegible] 266, 268, 269, 219, 211, 206, 232, 169, 354, 335, 348, 209, 290, 429, 407,	171, [illegible], 234, 83, 265, [illegible] 267, 270, 206, 211, 219, 83, 225, 240, 243, 246, [illegible] 347, [illegible] 209, 232, 354, 290, 123, [illegible], 407, 441	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 267.	171, 234, 206, 216, 240, 265, 225, 264, 268, 243, 266, 269, 270, 182, 189, 21, 285, 175, 232, 183, 184, 187, 354, 169, 290, 123	25, 84, 177, 147, 109, 111, 114, 171, 82, 183, 184, 185, 186, 187, 88, 189, 190, 195, 208, 212, 175, 180, 37, 246, 251, 266, 232, [illegible], 30, 290, 425, 426.	177, 147, [illegible], 114, 171, 30, 84, 82 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible], 290, 354, 269, 267	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 198, 195, 208, 212, 171, 223, 189, 184, 165, 130, [illegible], 206, 290, 232.	2, TD203, 234	2, CO17, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	
OUTSTANDING ECP's	175, 348, 174, 209, 202, 423	202, 418, 174, 423, 427	202, 348, 335, 427, 174, 418, 423	427, 423, 174, 348, 202, 418, 327	174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 269, 427, 327	174, 202, 209, 327		429, 426, [illegible], 202, 423, 327	174, 202, 246, 426, 327, 326	109, 111, 114, 130, 147, 175, 224	111, 114	25					
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000				
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5				

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 7[illegible], 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS
± — ± — ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

1/1014999

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 7	1010400 - 5	1010400 - [illegible]	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787		1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734 - 001	1013010	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786 - 001	2012699	1013009	1011785 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2012719	2012719	2012719	2011960	2011960	2011960	1011960 - 001	2012719	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 141	1899950 - 141	1899950 - 211	1899950 - 151	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 051	1899950 - 091	1899950 - 041	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
					1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
					1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (5)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
					1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
					1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764 - 021	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL		50	66
	2014764 - 011	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL		50	65
																			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664 - 021	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																			57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007289	1007156	1007156	1	TRAY 6		45	49
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007578 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
					AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
					1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
					1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
					1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
					1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
					1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
		1007700 - 031	1007700 - 031	1007700 - 031				1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707 - 031	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003564 - 021	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337 - 80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 041	1003706 - 031	1003706 - 041	1003706 - 031	1003706 - 031	1003577 - 011	1003570 - 011	1003570 - 011	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003189 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - [illegible]	1003770 - 041	1003770 - 051	1003497 - 011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S	226, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169, 290	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 266, 268, 269, 219, 211, 206, 232, 169, 354, 339, 348, 209, 290, 429, 407,	171, 160, 234, 180, 265, [illegible] 2, 267, 270, 206, 211, 219, [illegible] 225, 240, 243, 246, [illegible] 252, 295, [illegible] 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 267.	171, 234, 206, 246, 240, 225, 267, 268, 243, 266, 269, 270, 182, 189, 21[illegible], 285, 175, 232, 183, 184, 187, 354, 169, 290, 123.	25, 84, 177, 147, 109, 111, [illegible] 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, [illegible] 30, 290, 425, 426.	177, 147, 11, 114, 171, 30, 84, 182 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible] 290, 354, 269, 267	20, 61, 96, 177, 25, 234, 116, 60, [illegible] 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, [illegible] 290, 232.	2, TD203, 234	2, CO17, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP'S	175, 348 174, 209, 202, 423	202, 418, 174, 423, 427	202, 348, 335 427, 174, 418, 423	427, 423, 174, 348 202, 418, 327	174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 269, 427, 327	174, 202, 209, 327		429 426, 174, 202, 423, 327	174 202, 246, 426, 327, 326	109, 111, 114, 130, 147, 175, 224	111, 114	25						
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEM	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

TDRR 36497

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/6/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23508			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29154	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	Aug 66	
AU		REVISION STATUS CHANGED	GW	JI	Aug 66	
AV		REVISED PER TDRR 30589	RLW	JI	Aug 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 Aug 66	
AY		REVISED PER TDRR 30818	TH	RLW	SEP 66	
AZ		REVISED PER TDRR 30921		RLW	13 SEP 66	
BA		REVISED PER TDRR 31018	JJB	NS	14 SEP 66	
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R A Jones
CHECKED
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT M C Manley 15 Sep 65
APPROVED MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 1 OF 2

2/1014999

1014999 BB

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
	1021289-3	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40
	1021289-4	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
	1021303-011	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY		40
	1015500-051	1015500-081	1015500-081	1015500-081			1015500-051								2	CDU ASSEMBLY		40
	1015500-041	1015500-071	1015500-071	1015500-071			1015500-041		1015500-041 (5)						3	CDU ASSEMBLY		40
	1021302-011	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
	1021304-011	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	
	1021255-021	1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
								1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
								1026014 REV. -							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
								1026015 REV. B	1026053 REV.-						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
								1026012 REV. A	1026055 REV.-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
								1026035 REV -	1026057 REV - A						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
				1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
		1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
		1026115 REV.-		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
		1026117 REV.-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
		1026116 REV.-		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55
		1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
										1008268					1	WIRE HARNESS G"	SEE NOTE 9	
								2018898							1	WIRING HARNESS		
								1001496-76							2	SCREW, BUTTON HD. SPLINE SOCKET		
								1010705-8								CLAMP LOOP		
								1010705-6							1	CLAMP LOOP		
								1010705-5							1	CLAMP LOOP		
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

SYM	ZONE	REVISIONS C6407 DESCRIPTION	DR	CHK	DATE	APPROVED
H	-	REPLACES REV G WITH CHANGE PER TDRR 22704			10/1/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 2682	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED		JI	17 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921		RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED		NS	13 SEPT 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEPT 66	

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 051	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 041 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	[illegible]	149
	1021255 - 021	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. B	1026053 REV.-						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. A	1026055 REV.-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -	1026057 REV - A						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																			133
																			132
																			131
																			30
																			129
																			128
																			127
				1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
		1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
		1026115 REV.-		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
		1026117 REV.-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
		1026116 REV.-		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
		1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			11

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R. A. Jones Oct 4 1965
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999

2/1014999

								1010705-4							1	CLAMP LOOP		
								1010400-9							1	CLAMP, HINGED LOOP		
								1010400-4							2	CLAMP, HINGED LOOP		
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY		
								2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5	
															1	FLIGHT-DATA [illegible]		55
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55
	1001470	01470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, [illegible] TO S/C		55
	1010400-7	1010400-5	1010400-[illegible]	1010400-[illegible]	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER A & T ASSY		55
															1	LENS CLEANING KIT		59
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65
								1011787		1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65
	2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		
	2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65
	2011932	2012700	2012700	2012700	2011932	2011932	2011932	2011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65
	2011960	2012719	2012719	2012719	2011960	2011960	2011960	2011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT [illegible] LOCKOUT PIN ASSY		65
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 45-11	2	BOLT, HEX HD		65
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		66
	1899950-141	1899950-141	1899950-211	1899950-151	1899950-061	1899950-071	1899950-071	1899950-051	1899950-091	1899950-041	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		
					1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		
					1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	
					1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		
					1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		
	1015066-0[illegible]	1015066-0[illegible]	1015066-0[illegible]	1015066-0[illegible]	1015066-03	1015066-000	1015066-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA AND CONNECTOR ASSY	SEE NOTE	
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-02	2014764-02		2014764-02						1	LONG HANDLE, G&N PANEL		
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-01	1014502-011	1	OPTICS SHROUD ASSY		
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		
	1014628-021	1014628-021	1014629-021	1014628-021	1014628-011	1014628-021	1014626-021	1015035-011	1014628-021	1014526-031	1014526-011	1014526-01	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		
	1015065-091	1015065-091	1015065-09	1015065-091	1015065-041	1015065-091	1015065-1	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		
	1014664-02	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	5
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		4
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		4
	1007580-021	1007580-021	1007580-021	1007580-021	1007590-011	1007590-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		4
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		4
	1007578-02	1007578-021	1007579-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		4
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007598-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		4
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		4
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		4
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		4
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		4
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		4
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		4
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		4
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	4
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		4
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		4
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		4
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		4
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		4
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	4
					1016903-031	1016903-031		1016903-051		1016925-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	4
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		3
		1007700-031	1007700-031	1007700-031				1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		3
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		
	1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	5
	1003707-011	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		
	1003706-031	1003706-041	1003706-031	1003706-041	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728				SHIELD, STANDBY SWITCH, AGC		
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		
	1004783	1004783	1004783	1004	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		
														1003457	1	AGC CONN COVER PLATE		
														1003150	1	AGC TOE PLATE		
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		
													AN 104608	AN104608	4	SCREW, HEX HD		5
													AN 104606	AN104606	4	SCREW, HEX HD		5
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5
													1003189-011	1003189	1	AGC END CONNECTOR ASSY		5
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5
	1003700-051	1003700-011	1003700-031	1003700-011	1003700-051	1003700-051	1003565-011	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5
	1003770-091	1003770-161	1003770-61	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-131	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169, 290	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290, 429, 407, 441	234, 180, 225, 240, 82, 243, 246, 267, 270, 83, 265, 184, 187, 89, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 335, 348, 209, 290, 429, 407	171, 60, 234, 180, 265, 267, 270, 206, 212, 29, 33, 225, 240, 243, 246, 66, 269, 342, 209, 232, 354, 290, 123, 429, 407, 441	234, 225, 123, 175, 180, 182, 83, 184, 67, 189, 207, 252, 295, 290	169, 71, 175, 180, 182, 183, 184, 187, 189, 207, 125, 232, 234, 240, 243, 246, 252, 265, 290, 295, 267	171, 234, 265, 225, 264, 228, 243, 266, 269, 270, 182, 189, 21, 65, 175, 232, 183, 184, 187, 354, 69, 290, 123	84, 77, 47, 109, 11, 71, 182, 83, 184, 185, 186, 87, 88, 89, 90, 95, 208, 212, 175, 180, 37, 246, 251, 266, 30, 290, 425, 426	77, 142, 14, 71, 30, 84, 82 THRU 90, 95, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 290, 354, 269, 267	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 106, 290, 332	2, TD203, 224	2, 207, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
OUTSTANDING ECP's	175, 348, 74, 209, 202, 423	202, 418, 174, 423, 427	202, 348, 335, 427, 174, 418, 423	427, 423, 174, 348, 202, 418, 327	174, 211, 269, 232, 202, 206	174, 202, 206, 209, 211, 354, 269, 427, 327	174, 202, 209, 327		429, 426, 202, 423, 427	174, 202, 246, 426, 327, 376	114, 130, 147, 175, 109, 111	111, 114	25					
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000				
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5				

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 3?, 67, 7?, 58, 106, 32, 50 AND 51 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 106) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

1/1014999

QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
1	CLAMP LOOP			110
1	CLAMP, HINGED LOOP			109
2	CLAMP, HINGED LOOP			108
1	AIRBORNE AMPLIFIER PLATE ASSY			107
1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
1	FLIGHT-DATA BOOK		55	105
1	SCREW, SOC HD		55	104
1	BRACKET ASSY, COOLANT		55	103
1	CLAMP, COOLANT LINE		55	102
1	HOSE ASSY, FLEX, OPT TO C/S		55	101
1	HOSE ASSY, FLEX, IMU TO C/S		55	100
1	CLAMP, HINGED LOOP		55	99
1	TRACKER X & Y ASSY		55	98
1	LENS CLEANING KIT		55	97
1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
1	SXT PRISM HOUSING ASSY		65	94
1	SXT MIRROR HOUSING ASSY		65	93
1	SXT EYEPIECE ASSY		65	92
1	SCT EYEPIECE ASSY		65	91
4	SCREW, SOC HD CAP		65	90
1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
2	FRONT ... LOCKOUT PIN ASSY		65	88
6	WASHER, FLAT		65	87
2	BOLT, HEX HD		65	86
1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1	MOUNT, RESILIENT, REAR		65	84
6	SPRING, SEAL RETAINING		65	83
2	MOUNT, RESILIENT FRONT		65	82
1	SEAL, SXT BELLOWS		65	81
1	SEAL, SCT, BELLOWS		65	80
3	BOLT, HEX HD		65	79
1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1	CLAMP LOOP		56	74
1	CLAMP LOOP		56	73
1	CLAMP, HINGED LOOP		56	72
1	CLAMP, HINGED LOOP		56	71
3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1	CLAMP, HINGED LOOP		56	69
5	CLAMP, HINGED LOOP		56	68
1	ASE HARNESS AND PSA AND CONNECTOR ASSY	SEE NOTE	56	67
1	LONG HANDLE, G&N PANEL		50	66
1	SHORT HANDLE, G&N PANEL		50	65
				64
1	OPTICS COVER ASSY		50	63
1	OPTICS SHROUD ASSY		50	62
1	CONTROL ELECTRONICS ASSY		50	61
1	IMU CONTROL PANEL ASSY		50	60
1	D&C ELECTRONICS ASSY		50	59
1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
				57
6	SCREW, REWORKED		45	56
1	TOE CAP		45	55
1	TRAY 10		45	54
1	TRAY 9		45	53
1	TRAY 8		45	52
1	SHORTING PLUG		45	51
1	TRAY 7		45	50
1	TRAY 6		45	49
1	TRAY 5		45	48
1	TRAY 4		45	47
1	TRAY 3		45	46
1	TRAY 2		45	45
1	TRAY 1		45	44
	POWER AND SERVO ASSY	REFERENCE	45	43
10	NUT, SPECIAL STUD		40	42
10	STUD, SPECIAL		40	41
2	CDU ASSY		40	40
5	CDU ASSY		40	39
1	CDU PANEL ASSY		40	38
1	CDU FRAME ASSY	SEE NOTE 4	40	37
	CDU AND PANEL ASSY	REFERENCE	40	36
1	IMU ASSY		35	35
1	SIGNAL CONDITIONER ASSY		30	34
1	MAP AND DATA VIEWER		15	33
1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1	AGC MAIN DSKY		5	31
2	WASHER, LOCK		5	30
2	WASHER, FLAT		5	29
2	SCREW, SOC HD		5	28
1	FLANGE		5	27
1	BRACKET ANGLE		5	26
1	AGC NAV DSKY	SEE NOTE 4	5	25
1	GASKET, 360 PIN CONNECTOR		5	24
1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1	SHIELD, STANDBY SWITCH, AGC		5	22
2	WASHER, FLAT		5	21
8	SCREW, FLAT HD HEX SOC		5	20
2	SCREW, FLAT HD HEX SOC		5	19
1	FRONT CLOSE OUT PANEL		5	18
1	SUPPORT FRONT PANEL		5	17
1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
4	SCREW, SOC HD HEX		5	15
2	SCREW, SOC HD HEX		5	14
1	AGC CONN COVER PLATE		5	13
1	AGC TOE PLATE		5	12
4	SCREW, FLAT HD HEX SOC		5	11
4	SCREW, HEX HD		5	10
4	SCREW, HEX HD		5	9
4	BRACKET, COMP END CONN UPPER BRACE		5	8
14	SCREW, FLAT HD HEX SOC		5	7
1	AGC END CONNECTOR ASSY		5	6
1	G&N HARNESS TRAY ASSY		5	5
1	MEMORY TRAY B ASSY		5	4
1	LOGIC TRAY A ASSY		5	3
1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1

CONFIGURATION DASH NO.	-131	[illegible]	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10-7-65	WK
J		REVISED PER TDRR 23203			10/1/65	WK
K		REVISED PER TDRR 23257			10/1/65	WK
L		REVISED PER TDRR 23502			10/ /65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	WJW
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	W
U		REVISED PER TDRR 24772	RAJ		12-2 65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-29-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821			3-4-66	
AD		REVISED PER TDRR 26806			3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-10-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933			4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"			
AN		REVISED PER TDRR 29164	"			
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-3-66	
AS		REVISED PER TDRR 29716	"			
AT		REVISED PER TDRR 30359	RPS	JI		
AU		REVISION STATUS CHANGED	GW	JI	17 Aug 66	
AV		REVISED PER TDRR 30589	RLW	JI	31 Aug 66	
AW		REVISED PER TDRR 30692	RLW	JI		
AY		REVISED PER TDRR 30818	TA	RLW	3 SEP 66	
AZ		REVISED PER TDRR 30921		RLW	13 SEP 66	
BA		REVISED PER TDRR 31018	JJB	NS		
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RLW	10 OCT 66	

(H) REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATE INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS [illegible] 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-[illegible] (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N [illegible]
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R.A. Jones
CHECKED
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230 SIZE J DRAWING NO. 1014999
SCALE — SHEET 1 OF 2

2/1014999

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
[illegible]	WIRING HARNESS, AGC TO PSA/G&N TT EC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
[illegible]	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
[illegible]	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	4 AND 42
25	AGC NAV. DSKY	26 THRU 30
[illegible]	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 031	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - [illegible]								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 041						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	[illegible]	149
	1021255 - 021	1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 011	1021255 - 011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV B	1026053 REV.-						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. A	1026055 REV.-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -	1026057 REV - A						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
				1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
		1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
		1026115 REV.-		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
		1026117 REV.-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
		1026116 REV.-		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
		1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2016898							1	WIRING HARNESS			115
								1000496 -76							2	SCREW, BUTTON HD, SPLINE SOCKET			114
								1010705 - 8								CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

QTY REQD

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED M.I.T.
APPROVED NASA

1/1014999

REVISIONS C64C7

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/[illegible]/65	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26827	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		[illegible]	
AH		REVISED PER TDRR 27933	"		[illegible]	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED	RPS	JI	[illegible] AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	

DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577							RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289-3	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289-4	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSER. ASSY)		40	155
	1021303-011	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY		40	154
	1015500-0[illegible]1	1015500-081	1015500-081	1015500-081			1015500-051								2	CDU ASSEMBLY		40	153
	1015500-041	1015500-071	1015500-071	1015500-071			1015500-041		1015500-041						3	CDU ASSEMBLY		40	152
	1021302-011	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304-011	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11		149
	1021255-021	1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
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								1026034 REV C	1026056 REV -						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV -							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV A	1026055 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV A							1	G & N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -	1026057 REV - A						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
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		1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
		1026115 REV -		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
		1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
		1026116 REV -		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
		1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2116858							1	WIRING HARNESS			115
								1010496-76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705-8								CLAMP LOOP			113
								1010705-6							1	CLAMP LOOP			112
								1010705-5							1	CLAMP LOOP			111
ITEM	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R A Jones Oct 4 1965
CHECKED A J [illegible]
APPROVED
APPROVED D HOA[illegible]
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 2 OF 2

2-1014999

	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
								1010705-4							1	CLAMP LOOP	
								1010400-9							1	CLAMP, HINGED LOOP	
								1010400-4							2	CLAMP, HINGED LOOP	
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTE 4
															1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400-7	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
															1	LENS CLEANING KIT	
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	2012691	1011786	1011786	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE
	2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
	2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
	2011932	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2011960	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-6	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS	
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS	
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950-141	1899950-141	1899950-211	1899950-151	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-241	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
					1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
					1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
					1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE
					1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
					1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
	1015086-0[illegible]	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL	
	2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
	1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-10	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY	
	1014664-021	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10	
	1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG	
	1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE
					AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
					1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
					1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
					1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
					1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
					1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
					1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
	1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
		1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
								1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4
	1003707-031	1003563-051	1003563-0[illegible]1	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706-031	1003706-041	1003706-031	1003706-041	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
														1003457	1	AGC CONN COVER PLATE	
														1003180	1	AGC TOE PLATE	
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
													AN 104608	AN 104608	4	SCREW, HEX HD	
													AN 104606	AN 104606	4	SCREW, HEX HD	
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
													1003489-011	1003189	1	AGC END CONNECTOR ASSY	
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY	
													1003493-011	1003184	1	MEMORY TRAY B ASSY	
													1003488-011	1003187	1	LOGIC TRAY A ASSY	
	1003700-051	1003700-0[illegible]1	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770-091	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169, 290, 337	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290, 429, 407, 441, 438	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, [illegible] 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, 407, 438, 335, 348	171, 60, 234, 180, 265, [illegible]2, 267, 270, 206, 211, 29 [illegible]3, 225, 240, 243, 246 [illegible] 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438	234, 225, 123, 175, 180, 182, 183, 184, 167, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 236, 240, [illegible] 225, 267, 228, 243, 266, 269, 270, 182, 189, 21[illegible], 185, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	25, 84, 177, 147, 109, 111, [illegible] 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, [illegible] 130, 290, 425, 426.	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible] 4, 169, 290, 3[illegible], 269, 438, 267	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, [illegible] 290, 332.	2, TD203, 234, 224	2, CO 17, 347	2, 9, 6, 234	6, 25, 234			
OUTSTANDING ECP's	175, 348, 174, 209, 202, 423	202, 418, 174, 423, 427	202, 427, 174, 418, 423	427, 423, 174, 348, 202, 418, 327	174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 269, 427, 327	174, 202, 209, 327		429, 426, 174, 202, 423, 327	423, 174, 202, 246, 426, 327, 326	109, 111, 114, 130, 147, 175	111, 114	25				
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 7[illegible], 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. [illegible] REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE
DIMENSIONS ARE
CAPACITOR VALUES
RESISTOR VALUES
TOLERANCES ON
FRACTIONS DECIMALS
DO NOT SCALE THIS
MATERIAL

NEXT ASSY | USED ON
APPLICATION

1/1014999

-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400-7	1010400-5	1010400-	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	2012691	1011788	1011785	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2011734	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
2011786	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2011932	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2011960	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-141	1899950-141	1899950-211	1899950-151	1899950-081	1899950-071	1899950-071	1899950-051	1899950-091	1899950-241	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-9	1010400-9	1010400-9	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086-011	1015086-011	1015086-011	1015086-011	1015086-031	1015066-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	ACE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764-021	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
2014764-011	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																		64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-021	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-021	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-091	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-1[illegible]	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014664-021	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-021	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007255-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
1007579-021	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-021	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
1007577-031	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-021	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-031	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-031	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-031	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-041	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-031	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-021	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-091	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1005727	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003707-031	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003564-021	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-031	1003706-041	1003706-031	1003706-041	1003706-031	1003706-031	1003577-011	1003570-011	1003570-011	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN104608	4	SCREW, HEX HD		5	10
												AN 104606	AN104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-0[illegible]1	1003700-0[illegible]1	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770-0[illegible]	1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-131	1003770-1[illegible]1	1003770-041	1003770-05[illegible]	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 354, 169, 290, 337	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290, 429, 407, 441, 438	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, [illegible], 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, 407, 438, 335, 348	171, 60, 234, 180, 265, [illegible], 267, 270, 206, 211, 229, [illegible], 225, 240, 243, 246, [illegible], 266, 268, 269, 347, 209, 232, 354, 290, 123, [illegible], 407, 441, 438	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267	171, 234, [illegible], 246, 240, [illegible], 225, 267, 268, 243, 266, [illegible], 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	25, 84, 177, 147, 109, 111, [illegible], 171, 182, 183, 184, 185, 186, 187, 88, 189, 190, 195, 208, 212, 175, 180, 37, 246, 251, 266, [illegible], 30, 290, 425, 426	177, 147, 111, 114, 171, 130, 84, 82 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible], 290, 354, 269, 438, 267	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, [illegible], 290, 332	2, TD203, 234, 224	2, CO 17, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
175, 348, [illegible], 202, 423	202, 418, 174, 423, 427	202, 427, 174, 418, 423	427, 423, 174, 348, 202, 418, 327	174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 269, 427, 327	174, 202, 209, 327		429, 426, 174, 202, 423, 327	423, 174, 202, 246, 426, 327, 328	109, 111, 114, 130, 147, 175	111, 114	25						
-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 36457

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/7/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821			3-4-66	
AD		REVISED PER TDRR 26806			3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	AUG 66	
AU		REVISION STATUS CHANGED	GW	JL	17 AUG 66	
AV		REVISED PER TDRR 30589	RLW	JI	AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	AUG 66	
AY		REVISED PER TDRR 30818	TA	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921		RLW	13 SEP 66	
BA		REVISED PER TDRR 31018	JJB	NS	14 SEP 66	
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RLW	10 OCT 66	
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS [illegible], 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN µf RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING

MATERIAL

NEXT ASSY | USED ON

APPLICATION

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO 80230 | SIZE J | DRAWING NO. 1014999

SCALE | SHEET 1 OF 2

2/1014999

1014999

[illegible]

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
5	CASE AND PANEL ASSY, CDU	154 THRU 162
153	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N T EC	99
106	AIRBORNE VIBRATION ASSY	[illegible]7 THRU 115
56	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
[illegible]	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	4[illegible] AND 42
25	AGC NAV DSKY	22 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
										1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13
										1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)	
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)	
	1021289-3	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE	
	1021289-4	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE	
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL	
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD	
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR	
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)	
	1021303-011	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY	
	1015500-031	1015500-081	1015500-081	1015500-081			1015500-051								2	CDU ASSEMBLY	
	1015500-041	1015500-071	1015500-071	1015500-071			1015500-041		1015500-041 (5)						3	CDU ASSEMBLY	
	1021302-011	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4
	1021304-011	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11
	1021255-021	1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY	
								1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12
								1026014 REV. -							1	G&N ALARMS AND INTERRUPT TEST	SEE NOTE 12
								1026015 REV. B	1026053 REV.-						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12
								1026012 REV. A	1026055 REV.-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12
								1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12
								1026035 REV -	1026057 REV - A						1	G&N TO SC POLARITY TEST	SEE NOTE 12
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12
				1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10
		1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 11
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10
		1026115 REV.-		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10
		1026117 REV.-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10
		1026116 REV.-		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10
		1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10
										1008268					1	WIRE HARNESS G	SEE NOTE 9
								2018898							1	WIRING HARNESS	
								1000496-76							2	SCREW, BUTTON HD. SPLINE SOCKET	
								1010705-8								CLAMP LOOP	
								1010705-6							1	CLAMP LOOP	
								1010705-5							1	CLAMP LOOP	
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWIS
DIMENSIONS ARE
CAPACITOR VALUES
RESISTOR VALUES
TOLERANCES ON
FRACTIONS DEC
± ±
DO NOT SCALE TH

MATERIAL

REVISIONS [illegible]6407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/7/65	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23610	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 2682	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-2[illegible]-66	WK
AG		REVISED PER TDRR 27751	"		[illegible]	MCM
AH		REVISED PER TDRR 27933	"		[illegible]	MCM
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	MCM
AM		REVISED PER TDRR 28867	"		5-24-66	MCM
AN		REVISED PER TDRR 29164	"		5-31-66	MCM
AP		REVISED PER TDRR 29188	"		6-9-66	MCM
AR		REVISED PER TDRR 29362	"		6-13-66	MCM
AS		REVISED PER TDRR 29716	"		6-29-66	MCM
AT		REVISION STATUS CHANGED	RPS	JI	3 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	[illegible]	RLW	5 SEPT 66	
AZ		REVISED PER TDRR 30921	JW	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	

PART OR DASH NO.	-131	-121	-111	-101	-071	-091	-081	-05	-041	061	-031	-021	-011	-0[illegible]	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEM	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	1017577	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 031	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 041	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 041						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	[illegible]	149
	1021255 - 021	1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 011	1021255 - 011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV B	1026053 REV.-						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. A	1026055 REV.-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV -							1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -	1026057 REV - A						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																			133
																			132
																			131
																			130
																			129
																			128
																			127
				1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
		1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
		1026115 REV.-		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
		1026117 REV.-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
		1026116 REV.-		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
		1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								[illegible]							1	WIRING HARNESS			115
								100496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 -8								CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R. A. Jones Oct 4 1965
CHECKED A. J. [illegible]
APPROVED
APPROVED D. HOAG per [illegible]
APPROVED MIT W. [illegible] 6 Oct 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
							1010705 - 4							1	CLAMP LOOP			
							1010400 - 9							1	CLAMP, HINGED LOOP			
							1010400 - 4							2	CLAMP, HINGED LOOP			
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		
														1	FLIGHT-DATA BOOK		55	
	1000110-307	1000110-307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	
	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	
	1007585-011	1007585-011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	
														1	LENS CLEANING KIT		55	
	2011788	2011788	2011788	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	
	2011734	2011734	2012667	2011734	2011734	2011734	1011734 - 001	1013010	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY		65	
	2011786	2011786	2012699	2011786	2011786	2011786	1011786 - 001	2012699	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	
	2012719	2012719	2012719	2011960	2011960	2011960	1011960 - 001	2012719	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	
	1899950 - 191	1899950 - 211	1899950 - 211	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 051	1899950 - 231	1899950 - 241	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	
				1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (9)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	
				1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	
				1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606 - 051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	
	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G&N PANEL		50	
	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G&N PANEL		50	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	
	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		30	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 051	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	2	WASHER, LOCK		5	30
	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT		5	29
	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 041	1003706 - 041	1003706 - 041	1003706 - 031	1003706 - 031	1003577 - 011	1003570 - 011	1003706 - 041	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795 -808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
												1003189 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 61	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 1[illegible]1	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290, 429, 407, 441, 438, 202,	234, 180, 225, 240, 182, 83, 243, 246, 267, 270, 265, 184, 187, 89, [illegible] 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, 407, 438, 335, 348, 202, 441	171, 160, 234, 180, 265, [illegible] 267, [illegible] 206, [illegible] 3, 225, 240, 243, 246, [illegible] 269, 342, 209, 232, 354, 290, 123, [illegible] 29, 407, 441, 438, 202.	234, 225, 123, 175, 180, 182, 83, 84, 187, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, [illegible] 34, 206, 246, 240, [illegible] 225, 267, 268, 243, 266, 269, 270, 182, 189, 21[illegible] 185, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	25, 84, 177, 147, 109, 111, [illegible] 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 37, 246, 251, 266, [illegible] 30, 290, 425, 426.	177, 147, 111, 114, 171, 130, 84, 82 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible] 206, [illegible] 169, 290, 354, 269, 438, 267, 202, 441	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, [illegible] 290, 332, 202,	2, TD203, 234, 224	2, CO 17, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
OUTSTANDING ECP'S	418, 174, 423, 427	427, 174, 418, 423	427, 423, 174, 348, 418, 327	174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 269, 427, 327	174, 202, 209, 327		429, 426, 174, 423, 327	423, 174, 246, 426, 327, 328	109, 111, 114, 130, 147, 175	111, 114	25						
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 31, 67, [illegible], 58, 106, 32, 50 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY USED ON
APPLICATION

1/1014999

	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-191	1899950-211	1899950-211	1899950-081	1899950-071	1899950-071	1899950-051	1899950-231	1899950-241	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (6)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																		64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-1[illegible]	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	AGC ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-021	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007289	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		46	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-021	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-041	1003706-041	1003706-041	1003706-031	1003706-031	1003577-011	1003570-011	1003706-041	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 04608	AN104608	4	SCREW, HEX HD		5	10
												AN 04606	AN104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-131	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290, 429, 407, 441, 438, 202,	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 205, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, 407, 438, 335, 348, 202, 441	171, 60, 234, 180, 265, 62, 267, 270, 206, 211, 29, 183, 225, 240, 243, 246, [illegible], 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 202	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 236, 240, [illegible], 225, 264, [illegible], 243, 266, 269, 270, 182, 169, 21[illegible], 285, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	25, 84, 177, 147, 109, 111, [illegible], 71, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 37, 246, 251, 26[illegible], [illegible], 30, 290, 425, 426.	177, 147, 91, 114, 171, 130, 84, 182 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible], 206, [illegible], 169, 290, 354, 269, 438, 267, 202, 441	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, [illegible], 206, 290, 332, 202,	2, TD203, [illegible]34, 224	2, 2017, 347	2, 9, 6, 234	6, 25, 234					
OUTSTANDING ECP'S	418, 174, 423, 427	427, 174, 418, 423	427, 423, 174, 348, 418, 327	174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 269, 427, 327	174, 202, 209, 327		429, 426, 174, 423, 327	423, 174, 246, 426, 327, 328	109, 111, 114, 130, 147, 175	111, 114	25						
LOCATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 36407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	WK
J		REVISED PER TDRR 23205			[illegible]	WK
K		REVISED PER TDRR 23259			10/1/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25334	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		[illegible]	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	[illegible]
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-[illegible]-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-6-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-13-66	[illegible]
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	[illegible]
AM		REVISED PER TDRR 28867	"		5-24-66	[illegible]
AN		REVISED PER TDRR 29164	"		5-31-66	[illegible]
AP		REVISED PER TDRR 29188	"		6-9-66	[illegible]
AR		REVISED PER TDRR 29362	"		6-13-66	[illegible]
AS		REVISED PER TDRR 29716	"		6-29-66	[illegible]
AT		REVISED PER TDRR 30359	RPS	JI	[illegible]	
AU		REVISION STATUS CHANGED	GW	JI	[illegible]	
AV		REVISED PER TDRR 30589	RLW	JI	[illegible]	
AW		REVISED PER TDRR 30692	RLW	JI	[illegible]	
AY		REVISED PER TDRR 30818	TA	RLW	[illegible]	
AZ		REVISED PER TDRR 30981	[illegible]	RLW	13 SEP 66	
BA		REVISED PER TDRR 31018	JJB	NS	14 SEP 66	
BB		REVISED PER TDRR 31248	NE	RLW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RLW	10 OCT 66	
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	

Ⓗ REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS/A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 31, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. [illegible] REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R.A. Jones 13 Sept 1965
CHECKED 15 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999

SCALE — SHEET 1 OF 2

271014999

10 9 8 7 6 5 4 3 2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

										1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55
										1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
	~~1017577~~	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
	~~1017576~~	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
	~~1021289-3~~	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40
	~~1021289-4~~	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40
	~~1017575~~	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
	~~NAS1352C04LL6~~	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40
	~~1021305~~	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
	~~1021299~~	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
	~~1021303-011~~	1021303-011	1021303-011	1021303-011			1021303-011 →		1021303-011						1	FRAME MACHINING ASSY		40
	~~1015500-[illegible]~~	1015500-081	1015500-081	1015500-081			1015500-051								2	CDU ASSEMBLY		40
	~~1015500-041~~	1015500-071	1015500-071	1015500-071			1015500-041		1015500-041 (5)						3	CDU ASSEMBLY		40
	~~1021302-011~~	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
	~~1021304-011~~	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55
	~~1021255-021~~	1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
								1026034 REV. C	1026056 REV. -						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
								1026014 REV -							1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
								1026015 REV B	1026053 REV. -						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
								1026012 REV. A	1026055 REV. -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
								1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55
								1026024 REV -	1026059 REV. -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
								1026035 REV -	1026057 REV. - B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55
								1026047 REV -							1	AGC-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
				1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
		1026119 REV. -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
		1026115 REV. -		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
		1026117 REV. -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
		1026116 REV. -		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55
		1026118 REV. -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9	
								2018898							1	WIRING HARNESS		
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
								1010705 8							1	CLAMP LOOP		
								1010705 -6							1	CLAMP LOOP		
								1010705 -5							1	CLAMP LOOP		
CONFIGURATION DASH NO.	~~-131~~	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
G&N SYSTEMS	~~124~~	123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

1/1014999

REVISIONS 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22204			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
[illegible]		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 2682	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-[illegible]-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED	[illegible]	JI	3 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	[illegible] OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC		22 OCT 66	

GURATION DASH NO.	~~-131~~	-121	-111	-101	-0[illegible]1	-091	-081	-051	-041	-061	-031	-021	-011	-CCC	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
N SYSTEMS	~~124~~	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																			173
																			172
																			171
																			170
																			169
																			168
																			167
																			166
																			165
																			164
																			163
	~~1017577~~	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	~~1017576~~	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	~~1021289-3~~	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	~~1021289-4~~	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	~~1017575~~	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	~~NAS1352C04LL6~~	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	~~1021305~~	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	~~1021299~~	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	~~1021303-011~~	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY		40	154
	~~1015500-081~~	1015500-081	1015500-081	1015500-081			1015500-031								2	CDU ASSEMBLY		40	153
	~~1015500-071~~	1015500-071	1015500-071	1015500-071			1015500-041		1015500-041 (5)						3	CDU ASSEMBLY		40	152
	~~1021302-011~~	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	~~1021304-011~~	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	~~1021255-021~~	1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																			147
																			146
								1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -							1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. B	1026053 REV.-						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. A	1026055 REV.-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV -	1026059 REV.-						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -	1026057 REV.-B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																			133
																			132
																			131
																			30
																			129
																			128
																			127
				1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
		1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV-				1026016 REV -	1026018 REV-	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV-	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
		1026115 REV.-		1026041 REV-				1026004 REV -	1026028 REV-	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
		1026117 REV.-		1026043 REV-				1026003 REV -	1026026-REV-	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
		1026116 REV.-		1026042 REV -				1026002 REV -	1026027-REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
		1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							[illegible]	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R A Jones Oct 4 [illegible]
CHECKED
APPROVED
APPROVED D HOAG per [illegible]
APPROVED MIT
APPROVED MSC

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

2/1014999

							1010705 - 4							1	CLAMP LOOP	
							1010400 - 9							1	CLAMP, HINGED LOOP	
							1010400 - 4							2	CLAMP, HINGED LOOP	
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400 - 5	1010400-	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP	
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY	
														1	LENS CLEANING KIT	
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2011734	2011734	2012667	2011734	2011734	2011734	1011734 - 001	1013010	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY	
	2011786	2011786	2012699	2011786	2011786	2011786	1011786 - 001	2012699	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY	
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2012719	2012719	2012719	2011960	2011960	2011960	1011960 - 001	2012719	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY	
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 45 - 11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS	
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899971	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950 - 191	1899950 - 211	1899950 - 211	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 051	1899950 - 231	1899950 - 241	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP	
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP	
				1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP	
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (5)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP	
				1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP	
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015086 - 0[illegible]1	1015086 - 031	1014606 - 0[illegible]1	1014606 - 051	1014606	1014606	1014606	1	AGC HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL	
	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014761 - 011						1	SHORT HANDLE, G & N PANEL	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY	
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY	
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - [illegible]	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY	
	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007[illegible] - 011	1	TRAY 10	
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG	
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576 - 021	1007576 - 021	1007576 - 021	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570 - 021	1007570 - 021	1007570 - 021	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	[illegible]	1007257 - 011		POWER AND SERVO ASSY	REFERENCE
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY	
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY	
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY	
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700 - 051	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4
	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY	
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	2	WASHER, LOCK	
	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT	
	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD	
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706 - 041	1003706 - 041	1003706 - 041	1003706 - 031	1003706 - 031	1003577 - 011	1003570 - 011	1003706 - 041	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT	
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC	
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX	
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003180	1	AGC TOE PLATE	
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC	
												1003189 - 011	1003189	1	AGC END CONNECTOR ASSY	
												1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY	
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY	
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY	
	1003700 - 0[illegible]1	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 0[illegible]1	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 1[illegible]1	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 202,	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 245, 184, 187, [illegible], 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, [illegible], 438, 335, 348, 202, 441	171, 60, 234, 180, 265, [illegible], 267, 270, 206, 211, 219, [illegible], 225, 240, 243, 246, 184, [illegible], 342, 209, 232, 354, 290, 123, 429, 407, 441, 438, 202	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 1[illegible], 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 246, 240, [illegible], 225, 264, 268, 243, 266, 269, 270, [illegible], 211, 265, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	25, 84, 177, 147, 109, 111, [illegible], 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 37, 246, 251, 266, [illegible], 290, 425, 426.	177, 147, 114, 171, 30, 84, 82 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible], 4, 16[illegible], 290, 354, 269, 438, 267, 202, 441	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, [illegible], 290, 332, 202,	2, TD203, 234, 224	2, CO17, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP's	418, 174, 423, 427	427, 174, 418, 423	427, 423, 174, 348, 418, 327	174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 269, 427, 327	174, 202, 209, 327		429, 426, 174, 423, [illegible]	423, [illegible], 246, 426, 327, [illegible]	109, 111, 114, 130, 147, 175	111, 114	25				
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS [illegible] 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N [illegible].
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. [illegible]
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

[illegible]014999

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704				WK
J		REVISED PER TDRR 23203				WK
K		REVISED PER TDRR 23259			10/1/65	WK
L		REVISED PER TDRR 23502			10/ /65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26806	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933			4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-21-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI		
AU		REVISION STATUS CHANGED	GW	JI	17 AUG 66	
AV		REVISED PER TDRR 30589	RLW	JI		
AW		REVISED PER TDRR 30692	RLW	JI		
AY		REVISED PER TDRR 30818	TA	RLW	13 SEP 66	
AZ		REVISED PER TDRR 30921		RLW	13 SEP 66	
BA		REVISED PER TDRR 31018	JJB	NS	14 SEP 66	
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RLW	OCT 66	
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISED PER TDRR 31571	JC		22 OCT 66	

-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
		1	CLAMP LOOP			110
		1	CLAMP, HINGED LOOP			109
		2	CLAMP, HINGED LOOP			108
		1	AIRBORNE AMPLIFIER PLATE ASSY			107
		1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
		1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
		1	CLAMP, HINGED LOOP		55	99
		1	TRACKER X & Y ASSY		55	98
		1	LENS CLEANING KIT		55	97
1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
1011932	1011932	1	SXT EYEPIECE ASSY		65	92
1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
NAS1352C06-8		4	SCREW, SOC HD CAP		65	90
1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN960C516L	AN960C516L	6	WASHER, FLAT		65	87
1010728-001	NAS 45-11	2	BOLT, HEX HD		65	86
1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	8
1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
		1	CLAMP LOOP		56	74
1010705-8	1010705-8	1	CLAMP LOOP		56	73
1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
		1	LONG HANDLE, G&N PANEL		50	66
		1	SHORT HANDLE, G&N PANEL		50	65
						64
1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
						57
1008591	1008591	6	SCREW REWORKED		45	56
1008135	1008135	1	TOE CAP		45	55
1007160	1007160-011	1	TRAY 10		45	54
1007159	1007159	1	TRAY 9		45	53
1007158	1007158	1	TRAY 8		45	52
1007114	1007114	1	SHORTING PLUG		45	51
1007157	1007157	1	TRAY 7		45	50
1007156	1007156	1	TRAY 6		45	49
1007155	1007155	1	TRAY 5		45	48
1007154	1007154	1	TRAY 4		45	47
1007153	1007153	1	TRAY 3		45	46
1007152	1007152	1	TRAY 2		45	45
1007151	1007151	1	TRAY 1		45	44
[illegible]	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
AN365D-440	AN365D-440	10	NUT, SPECIAL STUD		40	42
1016889	1016889	10	STUD, SPECIAL		40	41
		2	CDU ASSY		40	40
1015500-011	1015500-011	5	CDU ASSY		40	39
1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1000201	1000201	1	IMU ASSY		35	35
1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
1011559	1011559	1	MAP AND DATA VIEWER		15	33
		1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004609	1004609	1	FLANGE		5	27
1004607	1004607	1	BRACKET ANGLE		5	26
1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
		1	GASKET, 360 PIN CONNECTOR		5	24
		1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
		1	SHIELD, STANDBY SWITCH, AGC		5	22
		2	WASHER, FLAT		5	21
		8	SCREW, FLAT HD HEX SOC		5	20
		2	SCREW, FLAT HD HEX SOC		5	19
		1	FRONT CLOSE OUT PANEL		5	18
		1	SUPPORT FRONT PANEL		5	17
		1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
		4	SCREW, SOC HD HEX		5	15
		2	SCREW, SOC HD HEX		5	14
	1003457	1	AGC CONN COVER PLATE		5	13
	1003180	1	AGC TOE PLATE		5	12
1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
AN104608	AN104608	4	SCREW, HEX HD		5	10
AN104606	AN104606	4	SCREW, HEX HD		5	9
1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
2,9,6,234	6,25,234					
25						
-011	-000					
6	5					

INCORPORATED ECP'S

OUTSTANDING ECP'S

CONFIGURATION DASH NO.

G&N SYSTEMS

(H) REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 31, 37, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES REFLECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO.108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R. A. Jones Sept 13 1965
CHECKED 13 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230 | SIZE J | DRAWING NO. 1014999

SCALE — SHEET 1 OF 2

2/1014999

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
5	CASE AND PANEL ASSY CDU	154 THRU 162
15[illegible]	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	[illegible]7 THRU 15
[illegible]	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
[illegible]	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	4[illegible] AND 42
25	AGC NAV DSKY	26 THRU 30
[illegible]	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.		-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
		1017577	1017577	1017577			1017577		1017577							RETAINER, SCREW (BOT)		40
		1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
		1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40
		1021289 4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40
		1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
		NAS 1352 C04 LL6	[illegible]	NAS135 C04LL6			NAS1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		40
		1021305	[illegible]	1021305			[illegible]		1021305						10	SEAL, CONNECTOR		40
		1021299	[illegible]99	[illegible]			[illegible]		1021299						1	PANEL (INSEP. ASSY)		40
		1021303-011	1021303-[illegible]	1021303-011			1021303-[illegible]		1021303-011						1	FRAME MACHINING ASSY		40
		10.5500-081	[illegible]-81	[illegible]-81			[illegible]								2	[illegible] ASSEMBLY		40
		10.5500-071	[illegible]-71	[illegible]-71			10.5500-041		10.5500-041 (5)						3	[illegible] ASSEMBLY		40
		1021302-011	[illegible]-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
		1021304-011	[illegible]-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
								1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55
		1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
								1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
								1026014 REV. -							1	G & N ALARMS AND INTERR[illegible] TEST	SEE NOTE 12	55
								1026015 REV B	1026053 REV.-						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
								1026012 REV. A	1026055 REV.-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
								1026011 REV. A							1	G & N POLARITY TEST	SEE NOTE 12	55
								1026024 REV -	1026059 REV.-						1	GIMBAL FRICTION TEST	SEE NOTE 12	55
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
								1026035 REV -	1026057 REV - B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
				1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
		1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
		1026115 REV.-		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
		1026117 REV.-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
		1026116 REV.-		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV					1	G & N POLARITY TEST	SEE NOTE 10	55
		1026118 REV.-						1026001 REV. -		1026006 RE.					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
										1008268					1	WIRE HARNESS G	SEE NOTE 9	
								2[illegible]16858							1	WIRING HARNESS		
								100496 -7F							2	SCREW, BUTTON HD. SPLINE SOCKET		
								[illegible]10705 -8								CLAMP LOOP		
								[illegible]00705 -6							1	CLAMP LOOP		
								[illegible]00705 -5							1	CLAMP LOOP		
G & N SYSTEMS		123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLE
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

1[illegible]0[illegible]4999

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/7/65	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23610	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-7-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 2682	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27333	"		[illegible]	WK
AG		REVISED PER TDRR 27751	"		[illegible]	
AH		REVISED PER TDRR 27933	"		[illegible]	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29 88	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED		JI	3 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	5 SEPT 66	
AZ		REVISED PER TDRR 30921		RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC		22 OCT 66	
BF		REVISION STATUS CHANGED	JC		22 OCT 66	

RATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577							RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME, [illegible] ASSY		40	154
	1015500-081	1015500-081	1015500-081			[illegible]								2	[illegible] ASSEMBLY		40	153
	1015500-071	1015500-071	1015500-071			1015500-041		1015500-041						3	[illegible] ASSEMBLY		40	152
	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11		149
	1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-011	1021255-011					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
																		146
							1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	5	145
							1026014 REV. -							1	G&N ALARMS AND INTERRUPT TEST	SEE NOTE 12	55	144
							1026015 REV B	1026053 REV.-						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. A	1026055 REV.-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A							1	G&N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026059 REV.-						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							102602 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV - B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
																		133
																		132
																		131
																		130
																		129
																		128
																		127
			1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV.-		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV.-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV.-		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV.-						1026001 REV.		1026006 REV.					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2016898							1	WIRING HARNESS			115
							1006496-76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705-8								CLAMP LOOP			113
							1010705-6							1	CLAMP LOOP			112
							1010705-5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R A Jones Oct 4 1965
CHECKED
APPROVED
APPROVED D HOAG PER TDRR
APPROVED MIT
APPROVED MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230
SIZE J
DRAWING NO 1014999
SCALE —
SHEET 2 OF 2

2/1014999

G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
							1010705-4							1	CLAMP LOOP	
							1010400-9							1	CLAMP, HINGED LOOP	
							1010400-4							2	CLAMP, HINGED LOOP	
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018699							1	AIRBOHNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
														1	LENS CLEANING KIT	
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS	
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 45-11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS	
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL. SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-221	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (5)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL	
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL	
	1023080	1023080	1023080	1014532	1014532	1014532	1014532	1023080	1023080	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-10	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY	
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10	
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG	
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706-041	1003706-041	1003706-041	1003706-031	1003706-031	1003577-011	1003570-011	1003706-041	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004726	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003180	1	AGC TOE PLATE	
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
												1003189-011	1003189	1	AGC END CONNECTOR ASSY	
												1003197-011	1003197	1	G & N HARNESS TRAY ASSY	
												1003493-011	1003184	1	MEMORY TRAY B ASSY	
												1003488-011	1003187	1	LOGIC TRAY A ASSY	
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-011	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-151	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290, 429, 407, 441, 438, 202, 423, 174, 418	234, 180, 225, 240, 243, 246, 267, 270, 265, 184, 187, 189, [illegible] 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 438, 335, 348, 202, 441, 423, 174, 418,	[illegible] 80, 234, 180, 265, [illegible] 267, 270, 206, 212, 219, 82, 83, 225, 240, 243, 246, 175, 211, [illegible] 266, 168, 269, 347, 209, 232, 354, 290, 123, [illegible] 407, 441, 438, 202, 348, 444, 423, 327, 174, 418, 446, 427	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290, 337	169, 71, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 246, 240, 225, 264, 268, 243, 266, 269, 270, 180, 169, [illegible] 185, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	25, 84, 177, 147, 109, 111, [illegible] 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, [illegible] 30, 290, 425, 426.	177, 147, 111, 114, 171, 130, 84, 82 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible] 4, 169, 290, 354, 269, 438, 267	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, [illegible] 290, 232, 202, 407, 423, 328, 174	2, TD203, 234, 224	2, CO 17, 347	2, 9, 6, 234	6, 25, 234			
OUTSTANDING ECP'S	427	427		174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 269, 427, 327	174, 202, 209, 327		202, 441, 429, 407, 327, 174, 426, 444	426, 327,	109, 111, 114, 130, 147, 175	111, 114	25				
CONFIGURATION DASH NO.	-121	-171	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS/A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 7[illegible], 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

NEXT ASSY	USED ON
[illegible]0000	

APPLICATION

UNLESS OTHERWISE SP
DIMENSIONS ARE IN INC
CAPACITOR VALUES ARE
RESISTOR VALUES ARE
TOLERANCES ON
FRACTIONS DEC
± — ±
DO NOT SCALE THIS
MATERIAL

1014999

-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
		1	CLAMP LOOP			110
		1	CLAMP, HINGED LOOP			109
		2	CLAMP, HINGED LOOP			108
		1	AIRBORNE AMPLIFIER PLATE ASSY			107
		1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
		1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
		1	CLAMP, HINGED LOOP		55	99
		1	TRACKER X & Y ASSY		55	98
		1	LENS CLEANING KIT		55	97
1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
1011932	1011932	1	SXT EYEPIECE ASSY		65	92
1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
NAS1352C06-8		4	SCREW, SOC HD CAP		65	90
1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN960C516L	AN960C516L	6	WASHER, FLAT		65	87
1010728-001	NAS145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
		1	CLAMP LOOP		56	74
1010705-8	1010705-8	1	CLAMP LOOP		56	73
1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
		1	LONG HANDLE, G&N PANEL		50	66
		1	SHORT HANDLE, G&N PANEL		50	65
						64
1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
SK44633	SK44633	1	D&C ELECTRONICS ASSY		50	59
1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
						57
1008591	1008591	6	SCREW REWORKED		45	56
1008135	1008135	1	TOE CAP		45	55
1007160	1007256-011	1	TRAY 10		45	54
1007159	1007159	1	TRAY 9		45	53
1007158	1007158	1	TRAY 8		45	52
1007114	1007114	1	SHORTING PLUG		45	51
1007157	1007157	1	TRAY 7		45	50
1007156	1007156	1	TRAY 6		45	49
1007155	1007155	1	TRAY 5		45	48
1007154	1007154	1	TRAY 4		45	47
1007153	1007153	1	TRAY 3		45	46
1007152	1007152	1	TRAY 2		45	45
1007151	1007151	1	TRAY 1		45	44
1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
AN365D-440	AN365D-440	10	NUT, SPECIAL STUD		40	42
1016889	1016889	10	STUD, SPECIAL		40	41
		2	CDU ASSY		40	40
1015500-011	1015500-011	5	CDU ASSY		40	39
1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1000201	1000201	1	IMU ASSY		35	35
1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
1011559	1011559	1	MAP AND DATA VIEWER		15	33
		1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003495-011	1003459-MD2	1	AGC MAIN DSKY		5	31
MS35337-80	MS35337-80	2	WASHER, LOCK		5	30
MS15795-807	MS15795-807	2	WASHER, FLAT		5	29
MS16995-26	MS16995-26	2	SCREW, SOC HD		5	28
1004609	1004609	1	FLANGE		5	27
1004607	1004607	1	BRACKET ANGLE		5	26
1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
		1	GASKET, 360 PIN CONNECTOR		5	24
		1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
		1	SHIELD, STANDBY SWITCH, AGC		5	22
		2	WASHER, FLAT		5	21
		8	SCREW, FLAT HD HEX SOC		5	20
		2	SCREW, FLAT HD HEX SOC		5	19
		1	FRONT CLOSE OUT PANEL		5	18
		1	SUPPORT FRONT PANEL		5	17
		1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
		4	SCREW, SOC HD HEX		5	15
		2	SCREW, SOC HD HEX		5	14
	1003457	1	AGC CONN COVER PLATE		5	13
	1003130	1	AGC TOE PLATE		5	12
1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
AN104608	AN104608	4	SCREW, HEX HD		5	10
AN104606	AN104606	4	SCREW, HEX HD		5	9
1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003496-011 MD1	1003186 MD2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1

INCORPORATED ECP'S										2, TD203, 234, 224	2, C017, 347	2, 9, 6, 234	6, 25, 234
OUTSTANDING ECP'S										114 130 147 175 109, 111,	111, 14	25	
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5

SYM	ZONE	REVISIONS DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704				
J		REVISED PER TDRR 23203				
K		REVISED PER TDRR 23259				
L		REVISED PER TDRR 23508				
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23826	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ			
V		REVISED PER TDRR 24938	RAJ			
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-29-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	
AA		REVISED PER TDRR 26318	RAJ		2-15-66	
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866			3-8-66	
AE		REVISED PER TDRR 27175	"		3-15-66	
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-12-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	
AK		REVISED PER TDRR 28374	"		5-3-66	
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI		
AU		REVISION STATUS CHANGED		JI		
AV		REVISED PER TDRR 30589	RW	JI		
AW		REVISED PER TDRR 30692	RW	JI		
AY		REVISED PER TDRR 30818				
AZ		REVISED PER TDRR 30921		RW	13 SEP 66	
BA		REVISED PER TDRR 31018	JJB	NS	14 SEP 66	
BB		REVISED PER TDRR 31248	ME	RW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RW	OCT 66	
BD		REVISED PER TDRR 31468	EC	RW	OCT 66	
BE		REVISED PER TDRR 31523	JC		22 OCT 66	
BF		REVISED PER TDRR 31571	JC		22 OCT 66	
BG		REVISED PER TDRR 31632	WA		1 NOV 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN µf RESISTOR VALUES ARE IN OHMS
TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R. A. Jones
CHECKED
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 1 OF 2

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
15[illegible]	CASE AND PANEL ASSY CDU	154 THRU 162
15[illegible]	COUPLING DISPLAY ASSY	[illegible] THRU 153
[illegible]	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
59	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
[illegible]	NAV. BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV. DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
	1017577	1017577	1017577			1017577		1017577							RETAINER, SCREW (BOT)		40
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40
	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME, MACHINING ASSY		40
	1015500-081	1015500-081	1015500-081			[illegible]								2	[illegible] ASSEMBLY		40
	1015500-071	1015500-071	1015500-071			[illegible]-041		1015500-071						3	[illegible] ASSEMBLY		40
	1021302-[illegible]	[illegible]	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
	1021304-[illegible]	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
							1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE [illegible]	55
	1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
							1026034 REV. C	1026056 REV -						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
							1026014 REV. -	1026062 REV. -						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
							1026015 REV B	1026053 REV -						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
							1026012 REV. A	1026063 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
							1026011 REV. A	1026060 REV. -						1	G&N POLARITY TEST	SEE NOTE 12	55
							1026024 REV -	1026059 REV. -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55
							1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 2	55
							10260[illegible] REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
							1026035 REV -	1026057 REV - B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 2	55
							1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
								1026055 REV. A						1	AGC OPERATIONAL TEST.	SEE NOTE 12.	55
			1026044 REV -				1026100 REV. A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
	1026119 REV. -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
	1026115 REV. -		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
	1026117 REV. -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
	1026116 REV. -		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55
	1026118 REV. -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
									1008268					1	WIRE HARNESS G	SEE NOTE 9	
							2018858								WIRING HARNESS		
							1004496-76							2	SCREW, BUTTON HD. SPLINE SOCKET		
							1010705-8								CLAMP LOOP		
							1010705-6							1	CLAMP LOOP		
							1010705-5							1	CLAMP LOOP		
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL

1/1014999

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22204			10/1/65	WR
J		REVISED PER TDRR 23203			[illegible]	WR
K		REVISED PER TDRR 23259			10/19/65	WR
L		REVISED PER TDRR 23502			[illegible]	WR
M		REVISED PER TDRR 23620	RAJ		11-2-65	WR
N		REVISED PER TDRR 23926	RAJ		11-9-65	WR
P		REVISED PER TDRR 24056	RAJ		11-18-65	WR
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WR
T		REVISED PER TDRR 24674	RAJ		12-14-65	WR
U		REVISED PER TDRR 24792	RAJ		12-20-65	WR
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WR
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WR
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WR
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WR
AB		REVISED PER TDRR 26620	"		2-23-66	WR
AC		REVISED PER TDRR 2682	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WR
AE		REVISED PER TDRR 27175	"		3-15-66	WR
AF		REVISED PER TDRR 27353	"		3-22-66	WR
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		[illegible]	
AJ		REVISED PER TDRR 28206	"		4-28-66	WR
AK		REVISED PER TDRR 28374	"		5-3-66	
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED		JI	3 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	TA	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921		RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISION STATUS CHANGED	JC	RLW	22 OCT 66	
BG		REVISED PER. TDRR 31632	WA		1 NOV 66	

RATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577							RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MATCHING ASSY		40	154
	1015500-081	1015500-81	1015500-81			[illegible]								2	[illegible] ASSEMBLY		40	153
	1015500-071	1015500-71	1015500-071			1015500-041		1015500-071						3	[illegible] ASSEMBLY		40	152
	1021302-011	1021302-011	1021302-011			1021302-011		1021302-021						1	CABLE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE [illegible]	[illegible]	149
	1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
																		146
							1026034 REV. C	1026056 REV-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026062 REV. -						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026015 REV B	1026053 REV-						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. A	1026063 REV-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026060 REV. -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026059 REV. -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV - B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026055 REV. A						1	AGC OPERATIONAL TEST.	SEE NOTE 12	55	133
																		132
																		131
																		130
																		129
																		128
																		127
			1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017- REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV.-		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV.-		1026043 REV -				1026003 REV -	1026026- REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV.-		1026042 REV -				1026002 REV -	1026027- REV A	1026007 REV					1	G & N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2 16658							1	WIRING HARNESS			115
							100496-76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							100705-8								CLAMP LOOP			113
							100705-6							1	CLAMP LOOP			112
							100705-5							1	CLAMP LOOP			111
N SYSTEMS	23	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV. G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R a Jones Oct 4 1965
CHECKED
APPROVED
APPROVED D. HOAG per J Bink
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 PG.

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							1010705 - 4							1	CLAMP LOOP		
							1010400 - 9							1	CLAMP, HINGED LOOP		
							1010400 - 4							2	CLAMP, HINGED LOOP		
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY		
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5	
														1	FLIGHT-DATA BOOK		55
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55
	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55
														1	LENS CLEANING KIT		55
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011786	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65
	2011734	2011734	2012667	2011734	2011734	2011734	1011734 - 001	1013010	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY		65
	2011786	2011786	2012699	2011786	2011786	2011786	1011786 - 001	2012699	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65
	2012719	2012719	2012719	2011960	2011960	2011960	1011960 - 001	2012719	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8		4	SCREW, SOC HD CAP		65
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65
	1899950 - 191	1899950 - 211	1899950 - 291	1899950 - 061	1899950 - 071	1899950 - 071	1899950 - 251	1899950 - 271	1899950 - 221	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56
				1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56
				1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56
				1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606 - 051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56
	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL		50
	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL		50
	1023080	1023080	1023080	1014532	1014532	1014532	1014532	1023080	1023080	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50
	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45
	1007576 - 021	1007576 - 021	1007576 - 031	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45
	1007570 - 021	1007570 - 021	1007570 - 031	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35
	1007700 - 051	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15
	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55
	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	2	WASHER, LOCK		5
	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT		5
	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD		5
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5
	1004670 - 041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5
	1003706 - 051	1003706 - 051	1003706 - 051	1003706 - 031	1003706 - 031	1003577 - 011	1003570 - 011	1003706 - 051	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5
													1003457	1	AGC CONN COVER PLATE		5
													1003180	1	AGC TOE PLATE		5
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5
												AN 104608	AN 104608	4	SCREW, HEX HD		5
												AN 104606	AN 104606	4	SCREW, HEX HD		5
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5
												1003189 - 011	1003189	1	AGC END CONNECTOR ASSY		5
												1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5
	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 1[illegible]1	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 202, 423, 174, 418, 463	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, 407, 438, 335, 348, 202, 441, 423, 174, 418, 463	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, 187, 189, [illegible], 252, 295, 169, 175, [illegible], 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 202, 348, 444, 423, 327, 174, 118, 446, 427, 463	234, 225, 123, 175, 180, 182, 183, 184, 167, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 246, 240, 265, 225, 264, 268, 243, 266, 269, 270, 182, 189, [illegible], 265, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	25, 84, 177, 147, 109, 111, 114, [illegible], 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 37, 246, 251, 266, 232, [illegible], 130, 290, 425, 426.	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, [illegible], 169, 290, 354, 269, 438, 267, 202, 441, 429, 407, 463, 327, 174, 426, 444	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206, 290, 332, 202, 407, 423, 328, 174	2, TD203, 234, 224	2, C017, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
OUTSTANDING ECP's	427	427,		174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407, 327			426, 327,	109, 111, 114, 130, 147, 175	111, 114	25					
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000				
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5				

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS/A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

ND 1000060		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN µf RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± — DO NOT SCALE THIS DRAWING
NEXT ASSY	USED ON	MATERIAL
APPLICATION		

1/1014999

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011785-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-191	1899950-211	1899950-291	1899950-061	1899950-071	1899950-071	1899950-251	1899950-271	1899950-221	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL		50	65
																		64
	1023080	1023080	1023080	1014532	1014532	1014532	1014532	1023080	1023080	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-011	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-011	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 351, 175, 209, 290, 429, 407, 441, 438, 202, 423, 174, 418, 463	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, 407, 438, 335, 348, 202, 441, 423, 174, 418, 463	171, 60, 234, 180, 265, 182, 267, 270, 206, 211, 29, 183, 225, 240, 243, 246, 184, 187, 189, 229, 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 202, 348, 444, 423, 327, 174, 418, 446, 427, 463	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 211, 285, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 88, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 231, 130, 290, 425, 426.	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 205, 4, 169, 290, 354, 269, 438, 267, 202, 441, 429, 407, 463, 327, 174, 426, 444	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206, 290, 332, 202, 407, 423, 328, 174	2, TD203, 234, 224	2, CO17, 347	2, 9, 6, 234	6, 25, 234					
OUTSTANDING ECP's	427	427		174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407, 327			426, 327	109, 111, 114, 130, 147, 175	111, 114	25						
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/7/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	AUG 66	
AU		REVISION STATUS CHANGED	GW	JI	17 AUG 66	
AV		REVISED PER TDRR 30589	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	AUG 66	
AY		REVISED PER TDRR 30818		RLW	8 SEPT 66	
AZ		REVISED PER TDRR 30921		RLW	14 SEPT 66	
BA		REVISED PER TDRR 31018	JJB	NS	14 SEPT 66	
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RLW	10 OCT 66	
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISED PER TDRR 31571	JC		22 OCT 66	
BG		REVISED PER TDRR 31632	WA.		1 NOV 66	
BH		REVISED PER TDRR 31731	WA	RLW	7 NOV 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R.A. Jones Sept 13 1965
CHECKED 15 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

2/1014999

1014999 BH

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
56	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

										1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55
										1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
		1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
		1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
		1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40
		1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40
		1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
		NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40
		1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
		1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
		1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40
		1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40
		1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40
		1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
		1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55
		1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
								1026034 REV. C	1026056 REV.–						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
								1026014 REV. –	1026062 REV. –						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
								1026015 REV. B	1026053 REV.–						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
								1026012 REV. A	1026063 REV–						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
								1026011 REV. A	1026060 REV.–						1	G&N POLARITY TEST	SEE NOTE 12	55
								1026024 REV –	1026059 REV.–						1	GIMBAL FRICTION TEST	SEE NOTE 12	55
								1026022 REV –							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
								1026021 REV –							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
								1026035 REV –	1026057 REV. – B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55
								1026047 REV –							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
								1026051 REV –							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
									1026055 REV. A						1	AGC OPERATIONAL TEST,	SEE NOTE 12	55
				1026044 REV –				1026100 REV.A	1026040 REV –						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
		1026119 REV.–		1026046 REV –					1026020 REV –						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
				1026045 REV –				1026016 REV –	1026018 REV –	1026017 REV –					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
								1026009 REV –	1026038 REV –	1026010 REV –					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
		1026115 REV.–		1026041 REV –				1026004 REV –	1026028 REV –	1026005 REV –					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
		1026117 REV.–		1026043 REV –				1026003 REV –	1026026 - REV –	1026008 REV –					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
		1026116 REV.–		1026042 REV –				1026002 REV –	1026027 - REV A	1026007 REV –					1	G&N POLARITY TEST	SEE NOTE 10	55
		1026118 REV.–						1026001 REV –		1026006 REV –					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
										1008268					1	WIRE HARNESS G	SEE NOTE 9	
								2C18898							1	WIRING HARNESS		
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
								1010705 -8								CLAMP LOOP		
								1010705 -6							1	CLAMP LOOP		
								1010705 -5							1	CLAMP LOOP		
CONFIGURATION DASH NO.		-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQU P. CODE
G&N SYSTEMS		123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

REVISIONS

C6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			[illegible]	WK
J		REVISED PER TDRR 23205			[illegible]	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	MCM
AH		REVISED PER TDRR 27933	"		4-13-66	MCM
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	MCM
AM		REVISED PER TDRR 28867	"		5-24-66	MCM
AN		REVISED PER TDRR 29164	"		5-31-66	MCM
AP		REVISED PER TDRR 29188	"		6-9-66	MCM
AR		REVISED PER TDRR 29362	"		6-13-66	MCM
AS		REVISED PER TDRR 29716	"		6-29-66	MCM
AT		REVISION STATUS CHANGED	RPS	JI	3 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISION STATUS CHANGED	JC	RLW	22 OCT 66	
BG		REVISED PER. TDRR 31632	WA	RLW	1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	

									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
		1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
		1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
		1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	60
		1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	59
		1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
		NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
		1021305	1021305	1021305			1021305		021305						10	SEAL, CONNECTOR		40	156
		1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
		1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
		1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
		1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
		1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
		1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
		1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
																		146
								1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
								1026014 REV. -	1026062 REV. -						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
								1026015 REV. B	1026053 REV.-						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
								1026012 REV. A	1026063 REV-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
								1026011 REV. A	1026060 REV.-						1	G & N POLARITY TEST	SEE NOTE 12	55	141
								1026024 REV -	1026059 REV.-						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
								1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
								1026035 REV -	1026057 REV. - B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
								1026047 REV -							1	ACE-G & N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
									1026055 REV. A						1	AGC OPERATIONAL TEST,	SEE NOTE 12	55	133
																		132
																		131
																		130
																		129
																		128
																		127
				1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
		1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
		1026115 REV.-		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
		1026117 REV.-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
		1026116 REV.-		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
		1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
										1008268					1	WIRE HARNESS G	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8								CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			11
URATION DASH NO.		-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
IN SYSTEM REV.		123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R A Jones Oct 4 1965
CHECKED A J [illegible] Oct 5 1965
APPROVED
APPROVED D. HOAG PER TDRR WK
APPROVED MIT [illegible] 6 Oct 65
APPROVED MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 BH

2/1014999

[illegible]

							1010705 - 4							1	CLAMP LOOP		
							1010400 - 9							1	CLAMP, HINGED LOOP		
							1010400 - 4							2	CLAMP, HINGED LOOP		
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY		
							2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5	
														1	FLIGHT-DATA BOOK		55
	1000110-307	1000110-307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55
	1010400- 5	1010400-5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 -7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 -7	1010400 - 7			1	CLAMP, HINGED LOOP		55
	1007585-011	1007585-011	1007585 -011	1007585 -011	1007585 -011	1007585 -011								1	TRACKER X & Y ASSY		55
														1	LENS CLEANING KIT		55
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65
	2011734	2011734	2012667	2011734	2011734	2011734	1011734 - 001	1013010	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 -000	1	SCT PRISM HOUSING ASSY		65
	2011786	2011786	2012699	2011786	2011786	2011786	1011786 - 001	2012699	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 -000	1	SXT MIRROR HOUSING ASSY		65
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65
	2012719	2012719	2012719	2011960	2011960	2011960	1011960 - 001	2012719	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65
	1011625 - 39 (5)	1011625 - 39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 -011	1899994 - 011	1899994 -011	1899994 -011	1899994 - 011	1899994 - 011	1899994 -011	1899994 -011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 -001	1010728 - 001	1010728 -001	1010728 -001	1010728 -001	1010728 -001	1010728 -001	NAS 145 - 11	2	BOLT, HEX HD		65
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65
	1899997 - 002	1899997 - 002	1899997 -002	1899997 - 002	1899997 -002	1899997 -002	1899997 -002	1899997 - 002	1899997 -002	1899997 -002	1899997 - 002	1899997 -002	1899954 -002	1	SEAL, SXT BELLOWS		65
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 -001	1899954 -001	1	SEAL, SCT, BELLOWS		65
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65
	1899950 - 191	1899950 - 211	1899950 - 291	1899950 - 061	1899950 - 071	1899950 -071	1899950 -251	1899950 - 271	1899950 - 221	1899950 -021	1899950 -021	1899950 -021	1899950 -011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 -8	1010705 -8	1010705 - 8	1	CLAMP LOOP		56
				1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 -8	1010400 - 8	1010400 -8	1	CLAMP, HINGED LOOP		56
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 -3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56
				1010400 - 2	1010400 - 2	1010400 -2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56
				1010400 - 1	1010400 - 1	1010400 -1				1010400 -1	1010400 -1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56
	1015086 -011	1015086 - 011	1015086-011	1015086 - 031	1015086 - 000	1015086-021	1015056-021	1015056 -031	1014606 - 041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56
	2014764 -021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL		50
	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL		50
	1023080	1023080	1023080	1014532	1014532	1014532	1014532	1023080	1023080	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50
	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45
	1007576 - 021	1007576 - 021	1007576 - 031	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45
	1007570 - 021	1007570 - 021	1007570 - 031	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35
	1007700 - 051	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15
	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55
	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	2	WASHER, LOCK		5
	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT		5
	MS 16995 - 26 (4)	MS 16995-26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD		5
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5
	1004670 - 041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5
	1003706 - 051	1003706 - 051	1003706 - 051	1003706 - 031	1003706 - 031	1003577 - 011	1003570 - 011	1003706 - 051	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5
	MS 15795 - 808	MS 15795 - 808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795 -808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5
													1003457	1	AGC CONN COVER PLATE		5
													1003180	1	AGC TOE PLATE		5
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5
												AN 104608	AN 104608	4	SCREW, HEX HD		5
												AN 104606	AN 104606	4	SCREW, HEX HD		5
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5
												1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5
												1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 021	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5
	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5
INCORPORATED ECP's	206,225, 232, 234, 240, 243,246, 265, 266, 267, 268,269, 270, 180,169, 351, 175, 209, 290, 429 407, 441, 438, 202, 423 174, 418, 463	234,180,225,240, 182, 243,246,267,270, 183, 265,184,187,189,295, 175 266,268,269,219, 211, 206,232,169,354, 209,290,429,407,438 335,348,202,441,423 174,418,463	171, 60,234,180,265, 182,267,270,206,211,219 183,225,240,243,246 184,187,189,207,252,295, 169,175,266,268,269, 347,209,232,354,290 123,429,407,441,438 202,348,444,423,327 174,418,446,427,463	234, 225,123, 175, 180 182, 183, 184, 187, 189 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183 184, 187, 189, 207 123, 232, 234, 240, 243, 246, 252, 265, 290, 295 337, 267.	171,234,206,246,240, 265,225,267,268,243, 266,269,270,182,189, 211,255, 175, 232, 183, 184, 187, 354, 169, 290 123, 337	258,177,147,109,111, 114, 71, 182, 183, 184, 185, 186, 187, 188, 189 190, 195, 208, 212, 175 180, 137, 246, 251, 266, 232, 206, 234, 130, 290, 425, 426.	177,147,111,114,171,130,84 182 THRU 190,195,137, 208,212,175,25,83,232, 160,219,246,240,265, 277,211,165,250,253,268 266,180,206,[illegible]4,169 290 354. 269,438,267 202,441,429,407,463 327,174,426,444	20,63,96,177,25,234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188,195,208,212, 171, 223,189,184,169, 130, 159, 180, 175, 206,290 332,202,407,423 328,174	2, TD203, 234, 224	2, CO 17, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
OUTSTANDING ECP's	427	427		174, 211, 269, 232, 202, 206	354 174,202,206,209,211, 407,427,269,427 327	174 202,209,407, 327			426 327,	109, 111, 114, 130, 147, 175	111, 114	25					
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000				
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5				

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS/A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

ND 1010000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µF
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

1/1014999

							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-191	1899950-211	1899950-291	1899950-061	1899950-071	1899950-071	1899950-251	1899950-271	1899950-221	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																		64
	1023080	1023080	1023080	1014532	1014532	1014532	1014532	1023080	1023080	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-011	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-1.1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S	206,225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 202, 423, 174, 418, 463	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 29?, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 441, 438, 335, 348, 202, 441, 423, 174, 418, 463	171, 160, 234, 180, 265, 182, 267, 270, 206, 212, 185, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 202, 348, 444, 423, 327, 174, 418, 446, 427, 463	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 236, 240, 265, 225, 267, 268, 243, 266, 269, 270, 182, 189, 285, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	4, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 130, 290, 425, 426.	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 160, 205, 4, 169, 290, 354, 269, 438, 267, 202, 441, 429, 407, 463, 327, 174, 426, 444	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206, 290, 332, 202, 407, 423, 328, 174	2, TD203, 234, 224	2, CO 17, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP'S	427	427		174, 211, 269, 232, 202, 206	174, 202, 206, 209, 211, 354, 407, 427, 269, 427, 327	174, 202, 209, 407, 327			426 327,	109, 111, 114, 130, 147, 175	111, 114	25						
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/5/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23826	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	Aug 66	
AU		REVISION STATUS CHANGED	GW	JI	Aug 66	
AV		REVISED PER TDRR 30589	RLW	JI	Aug 66	
AW		REVISED PER TDRR 30692	RLW	JI	Aug 66	
AY		REVISED PER TDRR 30818		RLW		
AZ		REVISED PER TDRR 30921		RLW	13 SEP 66	
BA		REVISED PER TDRR 31018	JJB	NS	14 SEP 66	
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RLW	10 OCT 66	
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISED PER TDRR 31571	JC		22 OCT 66	
BG		REVISED PER TDRR 31632	WA.		1 NOV. 66	
BH		REVISED PER TDRR 31731	WA	RLW	7 NOV 66	
BJ		REVISION STATUS CHANGED	WA	RLW	8 NOV 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS/A [illegible] INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000060	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones — Sept 13 1965
CHECKED — 13 Sept 65
APPROVED — 14 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT — 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK II

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 1 OF 2

1014999 BJ

2/1014999

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5				
									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
	1021289-3	1021289-3	1021289-3			1021289-3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40
	1021289-4	1021289-4	1021289-4			1021289-4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY		40
	1015500-081	1015500-081	1015500-081			1015500-051								2	CDU ASSEMBLY		40
	1015500-071	1015500-071	1015500-071			1015500-041		1015500-071 (5)						3	CDU ASSEMBLY		40
	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
							1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	
	1021255-041	1021255-041	1021255-041		1021255-021	1021255-021		1021255-031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
							1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
							1026014 REV. -	1026062 REV. -						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
							1026015 REV. B	1026053 REV.-						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
							1026012 REV. A	1026063 REV-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
							1026011 REV. A	1026060 REV.-						1	G&N POLARITY TEST	SEE NOTE 12	55
							1026024 REV -	1026059 REV.-						1	GIMBAL FRICTION TEST	SEE NOTE 12	55
							1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
							1026035 REV -	1026057 REV. - B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
							1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
								1026055 REV. A						1	AGC OPERATIONAL TEST,	SEE NOTE 12	55
			1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
	1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
	1026115 REV. A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
	1026117 REV.-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
	1026116 REV. A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55
	1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
									1008268					1	WIRE HARNESS 'G'	SEE NOTE 9	
							2018898							1	WIRING HARNESS		
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
							1010705 8							1	CLAMP LOOP		
							1010705 - 6							1	CLAMP LOOP		
							1010705 - 5							1	CLAMP LOOP		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

REVISIONS 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		[illegible]	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED	RPB	JI	19 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	[illegible] 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISION STATUS CHANGED	JC	RLW	22 OCT 66	
BG		REVISED PER. TDRR 31632	WA	RLW	1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	8 NOV 66	

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEM	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	[illegible]	149
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
																		146
							1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026062 REV. -						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV.-						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. A	1026063 REV-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026060 REV.-						1	G&N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026059 REV.-						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV. - B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026055 REV. A						1	AGC OPERATIONAL TEST,	SEE NOTE 12	55	133
																		132
																		131
																		130
																		129
																		128
																		127
			1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PPOFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV-				1026016 REV -	1026018 REV-	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV. A		1026041 REV-				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV.-		1026043 REV-				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV. A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8							1	CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 - 5							1	CLAMP LOOP			11

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 BJ

2/1014999

														QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
							1010705-4							1	CLAMP LOOP		
							1010400-9							1	CLAMP, HINGED LOOP		
							1010400-4							2	CLAMP, HINGED LOOP		
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY		
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5	
														1	FLIGHT-DATA BOOK		55
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55
														1	LENS CLEANING KIT		55
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011786	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65
	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65
	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65
	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65
	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-221	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-011	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5
													1003457	1	AGC CONN COVER PLATE		5
													1003180	1	AGC TOE PLATE		5
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5
												AN 104608	AN 104608	4	SCREW, HEX HD		5
												AN 104606	AN 104606	4	SCREW, HEX HD		5
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5
												1003189-011	1003189	1	AGC END CONNECTOR ASSY		5
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 351, 75, 209, 290, 429, 407, 441, 438, 202, 174, 418, 463	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, 407, 438, 335, 348, 202, 441, 174, 418, 463	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 219, 183, 225, 240, 243, 246, 184, [illegible], 207, 252, 295, 169, [illegible], 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 202, 348, 444, 327, 174, 418, 446, 427, 463	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 246, 240, 265, 225, 264, 268, 243, 266, 269, 270, 182, 189, 21?, 285, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	258, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130, 290, 425, 426.	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 205, 234, 169, 290, 354, 269, 438, 267, 202, 441, 429, 407, 463, 327, 174, 426, 444, 243	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, [illegible], 206, 290, 332, 202, 407, 328, 174	2, TD203, 234, 224	2, CO 17, 347	2, 9, 6, 234	6, 25, 234				
OUTSTANDING ECP's	427	427,		174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407, 327			426, 327,	130, 175							
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000				
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5				

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µF
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

17 1014999

FIND NO.	EQUIP. CODE	REMARKS	NOMENCLATURE OR DESCRIPTION	QTY.
110			CLAMP LOOP	1
109			CLAMP, HINGED LOOP	1
108			CLAMP, HINGED LOOP	2
107			AIRBORNE AMPLIFIER PLATE ASSY	1
106		SEE NOTES 4 & 5	AIRBORNE VIBRATION ASSY	1
105	55		FLIGHT-DATA BOOK	1
104	55		SCREW, SOC HD	1
103	55		BRACKET ASSY, COOLANT	1
102	55		CLAMP, COOLANT LINE	1
101	55		HOSE ASSY, FLEX, OPT TO S/C	1
100	55		HOSE ASSY, FLEX, IMU TO S/C	1
99	55		CLAMP, HINGED LOOP	1
98	55		TRACKER X & Y ASSY	1
97	55		LENS CLEANING KIT	1
96	65	SEE NOTE 6	LONG EYE RELIEF EYEPIECE SCT	1
95	65	SEE NOTE 6	LONG EYE RELIEF EYEPIECE SXT	1
94	65		SCT PRISM HOUSING ASSY	1
93	65		SXT MIRROR HOUSING ASSY	1
92	65		SXT EYEPIECE ASSY	1
91	65		SCT EYEPIECE ASSY	1
90	65		SCREW, SOC HD CAP	4
89	65		ADAPTER PLATE ASSY COOLANT HOSE BY PASS	1
88	65		FRONT ISOLATOR LOCKOUT PIN ASSY	2
87	65		WASHER, FLAT	6
86	65		BOLT, HEX HD	2
85	65		SNUBBER, REAR (INSEPARABLE) ASSY	1
84	65		MOUNT, RESILIENT, REAR	1
83	65		SPRING, SEAL RETAINING	6
82	65		MOUNT, RESILIENT FRONT	2
81	65		SEAL, SXT BELLOWS	1
80	65		SEAL, SCT, BELLOWS	1
79	65		BOLT, HEX HD	3
78	65		SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	1
77	65		SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	1
76	65	SEE NOTE 4	NAV BASE AND OPTICAL UNIT ASSY	1
75	56		BRACKET CLAMP (INSEPARABLE ASSY)	1
74	56		CLAMP LOOP	1
73	56		CLAMP LOOP	1
72	56		CLAMP, HINGED LOOP	1
71	56		CLAMP, HINGED LOOP	1
70	56	SEE NOTE 5	CLAMP, HINGED LOOP	3
69	56		CLAMP, HINGED LOOP	1
68	56		CLAMP, HINGED LOOP	5
67	56	SEE NOTE 4	AGE HARNESS AND PSA END CONNECTOR ASSY	1
66	50		LONG HANDLE, G&N PANEL	1
65	50		SHORT HANDLE, G&N PANEL	1
64				
63	50		OPTICS COVER ASSY	1
62	50		OPTICS SHROUD ASSY	1
61	50		CONTROL ELECTRONICS ASSY	1
60	50		IMU CONTROL PANEL ASSY	1
59	50		D&C ELECTRONICS ASSY	1
58	50	SEE NOTE 4	G&N INDICATOR AND CONTROL PANEL ASSY	1
57				
56	45		SCREW REWORKED	6
55	45		TOE CAP	1
54	45		TRAY 10	1
53	45		TRAY 9	1
52	45		TRAY 8	1
51	45		SHORTING PLUG	1
50	45		TRAY 7	1
49	45		TRAY 6	1
48	45		TRAY 5	1
47	45		TRAY 4	1
46	45		TRAY 3	1
45	45		TRAY 2	1
44	45		TRAY 1	1
43	45	REFERENCE	POWER AND SERVO ASSY	
42	40		NUT, SPECIAL STUD	10
41	40		STUD, SPECIAL	10
40	40		CDU ASSY	2
39	40		CDU ASSY	5
38	40		CDU PANEL ASSY	1
37	40	SEE NOTE 4	CDU FRAME ASSY	1
36	40	REFERENCE	CDU AND PANEL ASSY	
35	35		IMU ASSY	1
34	30		SIGNAL CONDITIONER ASSY	1
33	15		MAP AND DATA VIEWER	1
32	55	SEE NOTE 4	WIRING HARNESS, AGC TO PSA/G&N TO SC	1
31	5		AGC MAIN DSKY	1
30	5		WASHER, LOCK	2
29	5		WASHER, FLAT	2
28	5		SCREW, SOC HD	2
27	5		FLANGE	1
26	5		BRACKET ANGLE	1
25	5	SEE NOTE 4	AGC NAV DSKY	1
24	5		GASKET, 360 PIN CONNECTOR	1
23	5		FRONT PANEL MOUNT ASSY, LEFT SIDE	1
22	5		SHIELD, STANDBY SWITCH, AGC	1
21	5		WASHER, FLAT	2
20	5		SCREW, FLAT HD HEX SOC	8
19	5		SCREW, FLAT HD HEX SOC	2
18	5		FRONT CLOSE OUT PANEL	1
17	5		SUPPORT FRONT PANEL	1
16	5		FRONT PANEL MOUNT ASSY, RIGHT SIDE	1
15	5		SCREW, SOC HD HEX	4
14	5		SCREW, SOC HD HEX	2
13	5		AGC CONN COVER PLATE	1
12	5		AGC TOE PLATE	1
11	5		SCREW, FLAT HD HEX SOC	4
10	5		SCREW, HEX HD	4
9	5		SCREW, HEX HD	4
8	5		BRACKET, COMP END CONN UPPER BRACE	4
7	5		SCREW, FLAT HD HEX SOC	14
6	5		AGC END CONNECTOR ASSY	1
5	5		G&N HARNESS TRAY ASSY	1
4	5		MEMORY TRAY B ASSY	1
3	5		LOGIC TRAY A ASSY	1
2	5	SEE NOTE 4	APOLLO GUIDANCE COMPUTER	1
1	5	REFERENCE	APOLLO GUIDANCE COMPUTER GROUP	

FIND NO.	-121	-111	-101	-071	-091	-081	-051
110							1010705-4
109							1010400-9
108							1010400-4
107							2007208
106							2018899
105							
104	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307
103	1001591	1001591	1001591	1001591	1001591	1001591	1001591
102	1000293	1000293	1000293	1000293	1000293	1000293	1000293
101	1001469	1001469	1001469	1001469	1001469	1001469	1001469
100	1001470	1001470	1001470	1001470	1001470	1001470	1001470
99	1010400-5	1010400-[illegible]	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5
98	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	
97							
96	2011788	2011788	2012691	2011788	2011788	2011788	1011788
95							1011787
94	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001
93	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001
92	2012700	2012700	2012700	2011932	2011932	2011932	1011932
91	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001
90	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8
89	1021407	1021407	1021407	1021407	1021407	1021407	1021414
88	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011
87	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L
86	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001
85	1899975	1899975	1899975	1899975	1899975	1899975	1899975
84	1010827	1010827	1010827	1010827	1010827	1010827	1010827
83	1899971	1899971	1899971	1899971	1899971	1899971	1899971
82	1010828	1010828	1010828	1010828	1010828	1010828	1010828
81	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002
80	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001
79	1899980	1899980	1899980	1899980	1899980	1899980	1899980
78	1899978	1899978	1899978	1899978	1899978	1899978	1899978
77	1899974	1899974	1899974	1899974	1899974	1899974	1899974
76	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251
75				1014609	1014609	1014609	
74	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	
73	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)
72				1010400-8	1010400-8	1010400-8	
71				1010400-7	1010400-7	1010400-7	
70	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)
69				1010400-2	1010400-2	1010400-2	
68				1010400-1	1010400-1	1010400-1	
67	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021
66	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021	
65	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011	
64							
63	1014532	1014532	1014532	1014532	1014532	1014532	1014532
62	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011
61	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011
60	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011
59	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051
58	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011
57							
56	1008591	1008591	1008591	1008591	1008591	1008591	1008591
55	1007220	1007220	1007220	1008535	1008535	1007220	1008535
54	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031
53	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011
52	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011
51	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163
50	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021
49	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021
48	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021
47	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021
46	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021
45	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031
44	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021
43	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051
42				AN 365D-440	AN 365D-440		AN 365D-440
41				1016889	1016889		1016889
40				1015500-031	1015500-031		1015500-061 (3)
39				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)
38				1017538-021	1017538-021		1017538-021
37				1016885-021	1016885-021		1016885-031
36				1016903-031	1016903-031		1016903-051
35	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041
34	1007700-051	1007700-051	1007700-051				1007700-011
33							1012136
32	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011
31	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021
30	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)
29	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)
28	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)
27	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011
26	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670
25	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-011	1003570-011
24	1004730	1004730	1004730	1004730	1004730	1004730	1004730
23	1003734	1003734	1003734	1003734	1003734	1003734	1003734
22	1004728	1004728	1004728	1004728	1004728	1004728	1004728
21	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808
20	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40
19	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39
18	1004783	1004783	1004783	1004783	1004783	1004783	1004783
17	1003730	1003730	1003730	1003730	1003730	1003730	1003730
16	1003735	1003735	1003735	1003735	1003735	1003735	1003735
15	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10
14	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13
13							
12							
11							
10							
9							
8							
7							
6							
5							
4							
3							
2	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-021	1003565-011
1	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131
INCORPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290, 429, 407, 441, 438, 202, 174, 418, 463	234, 180, 225, 240, 182, 243, 246, 267, 270, 183, 265, 184, 187, 189, 295, 175, 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, 407, 438, 335, 348, 202, 441, 174, 418, 463	171, 160, 234, 180, 265, 182, 267, 270, 206, 211, 129, 183, 225, 240, 243, 246, 184, 187, 189, 207, 252, 295, 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 202, 348, 444, 327, 174, 418, 446, 427, 463	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267	171, 234, 206, 246, 240, 205, 225, 267, 268, 243, 266, 269, 270, 182, 189, 214, 285, 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	25, 84, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 137, 246, 251, 266, 232, 206, 234, 130, 290, 425, 426
OUTSTANDING ECP'S	427	427		174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407, 327	
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051
G&N SYSTEMS	123	122	121	109	111	110	17

FIND NO.	-041	-061	-031	-021	-011	-000
110						
109						
108						
107						
106						
105						
104	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307
103	1001591	1001591	1001591	1001591	1001591	1001591
102	1000293	1000293	1000293	1000293	1000293	1000293
101	1001469	1001469	1001469	1001469	1001469	1001469
100	1001470	1001470	1001470	1001470	1001470	1001470
99	1010400-5	1010400-5	1010400-7	1010400-7		
98						
97						
96	2012691	1011788	1011788	1011788	1011788	1011788
95	1011787	1011787	1011787	1011787	1011787	1011787
94	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000
93	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000
92	2012700	1011932	1011932	1011932	1011932	1011932
91	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000
90	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	
89	1021414	1021414	1021414	1021414	1021414	
88	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011
87	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L
86	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11
85	1899975	1899975	1899975	1899975	1899975	1899975
84	1010827	1899969	1899969	1899969	1899969	1899969
83	1899971	1899971	1899971	1899971	1899971	1899971
82	1010828	1899970	1899970	1899970	1899970	1899970
81	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002
80	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001
79	1899980	1899980	1899980	1899980	1899980	1899980
78	1899978	1899978	1899978	1899978	1899978	1899978
77	1899974	1899974	1899974	1899974	1899974	1899974
76	1899950-271	1899950-221	1899950-021	1899950-021	1899950-021	1899950-011
75			1014609	1014609	1014609	1014609
74						
73	1010705-8 (2)	1010705-8 (2)	1010705-6	1010705-6	1010705-6	1010705-6
72			1010400-8	1010400-8	1010400-8	1010400-8
71			1010400-7	1010400-7	1010400-7	1010400-7
70	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3
69			1010400-2	1010400-2	1010400-2	1010400-2
68			1010400-1	1010400-1	1010400-1	1010400-1
67	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606
66	2014764-021					
65	2014764-011					
64						
63	1014532	1014532	1014532	1014532	1014532	1014532
62	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011
61	1015064-011	1015064-011	1015003	1015003	1015003	1015003
60	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011
59	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633
58	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011
57						
56	1008591	1008591	1008591	1008591	1008591	1008591
55	1007220	1008135	1008135	1008135	1008135	1008135
54	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011
53	1007459-021	1021229-011	1007179	1007159	1007159	1007159
52	1007458-021	1021228-011	1007178	1007271	1007158	1007158
51	1007163	1007163	1007163	1007163	1007114	1007114
50	1007577-041	1021227-011	1007177	1007270	1007157	1007157
49	1007456-031	1021226-011	1007176	1007269	1007156	1007156
48	1007575-041	1021225-011	1007175	1007268	1007155	1007155
47	1007574-041	1021224-011	1007262	1007262	1007154	1007154
46	1007573-041	1021223-011	1007260	1007260	1007153	1007153
45	1007572-051	1021222-011	1007152	1007152	1007152	1007152
44	1007571-041	1021221-011	1007151	1007151	1007151	1007151
43	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011
42		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440
41		1016889	1016889	1016889	1016889	1016889
40						
39		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011
38		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011
37		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011
36		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011
35	1001500-091	1001479	1000201	1000201	1000201	1000201
34	1007700-041	1007121	1007121	1007121	1007121	1007121
33			1012136	1012136	1011559	1011559
32	1005785-011	1005785-011	1005707-011	1005707-021		
31	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2
30	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80
29	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807
28	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26
27	1004669-011	1004669-011	1004609	1004609	1004609	1004609
26	1004670	1004670	1004607	1004607	1004607	1004607
25	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1
24	1004730	1004730	1004730	1004730		
23	1003734	1003734	1003734	1003734		
22	1004728	1004728	1004728	1004728		
21	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808		
20	1010630-40	1010630-40	1010630-40	1010630-40		
19	1010630-39	1010630-39	1010630-39	1010630-39		
18	1004783	1004783	1004723	1004723		
17	1003730	1003730	1003730	1003730		
16	1003735	1003735	1003735	1003735		
15	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10		
14	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13		
13						1003457
12						1003180
11					1010630-38	1010630-38
10					AN 104608	AN 104608
9					AN 104606	AN 104606
8					1004272	1004272
7					1010630-58	1010630-58
6					1003189-011	1003189
5					1003197-011	1003197
4					1003493-011	1003184
3					1003488-011	1003187
2	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2
1	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1
INCORPORATED ECP'S	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 37, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, 266, 180, 205, 234, 169, 290, 354, 269, 438, 267, 202, 441, 429, 407, 463, 327, 174, 426, 444, 243	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 165, 130, 159, 180, [illegible], 206, 290, 332, 202, 407, 328, 174	2, TD203, 234, 224	2, CO 17, 347	2, 9, 6, 234	6, 25, 234
OUTSTANDING ECP'S		426, 327	130, 175			
CONFIGURATION DASH NO.	-041	-061	-031	-021	-011	-000
G&N SYSTEMS	12	20	8	7	6	5

REVISIONS TDRR 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/7/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28667	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	Aug 66	
AU		REVISION STATUS CHANGED	GW	JI	11 Aug 66	
AV		REVISED PER TDRR 30589	RLW	JI	Aug 66	
AW		REVISED PER TDRR 30692	RLW	JI	Aug 66	
AY		REVISED PER TDRR 30818	TB	RLW	8 SEPT 66	
AZ		REVISED PER TDRR 30921		RLW		
BA		REVISED PER TDRR 31018	JJB	NS	14 SEP 66	
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RLW	10 OCT 66	
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISED PER TDRR 31571	JC		22 OCT 66	
BG		REVISED PER TDRR 31632	WA		1 NOV 66	
BH		REVISED PER TDRR 31731	WA	RLW	7 NOV 66	
BJ		REVISION STATUS CHANGED	WA	RLW	8 NOV 66	
BK		REVISED PER TDRR 31930	WA		21 NOV 66	

(H) REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones Sept 13 1965
CHECKED 13 Sept 65
APPROVED 14 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

1014999 BK

2/1014999

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
56	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13
	1017577	1017577	1017577			1017577		1017577							RETAINER, SCREW (BOT)	
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)	
	1021289-3	1021289 -3	1021289 -3			1021289 -3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE	
	1021289 4	1021289 -4	1021289 -4			1021289 -4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE	
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL	
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD	
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR	
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)	
	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY	
	1015500-081	1015500-081	1015500-081			[illegible]								2	CDU ASSEMBLY	
	1015500-071	1015500-071	1015500-071			1015500-041		1015500-071 (5)						3	CDU ASSEMBLY	
	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4
	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4
							1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11
	1021255 -041	1021255 -041	1021255 -041		1021255-021	1021255 -021		1021255 -031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY	
							1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12
							1026014 REV. -	1026062 REV.-						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12
							1026015 REV B	1026053 REV.-						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12
							1026012 REV. A	1026063 REV-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12
							1026011 REV. A	1026060 REV.-						1	G&N POLARITY TEST	SEE NOTE 12
							1026024 REV -	1026059 REV.-						1	GIMBAL FRICTION TEST	SEE NOTE 12
							1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12
							1026035 REV -	1026057 REV - B						1	G&N TO SC POLARITY TEST	SEE NOTE 12
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12
							1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12
								1026055 REV. A						1	AGC OPERATIONAL TEST.	SEE NOTE 12
	1026139 REV-		1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10
	1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10
			1026045 REV-				1026016 REV -	1026018 REV-	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10
	1026115 REV. A		1026041 REV-				1026004 REV -	1026028 REV-	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10
	1026117 REV-		1026043 REV-				1026003 REV -	1026026 - REV-	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10
	1026116 REV. A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10
	1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10
									1008268					1	WIRE HARNESS G	SEE NOTE 9
							2018698							1	WIRING HARNESS	
							1004496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET	
							1010705 -8								CLAMP LOOP	
							1010705 -6							1	CLAMP LOOP	
							1010705 -5							1	CLAMP LOOP	
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

1/1014999

REVISIONS C6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/5/65	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/17/65	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-[illegible]-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISION STATUS CHANGED	RPB	JI	[illegible] AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	TA	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	[illegible]	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISION STATUS CHANGED	JC		22 OCT 66	
BG		REVISED PER. TDRR 31632	WA		[illegible] NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	9 NOV 66	
BK		REVISED PER TDRR 31930	WA		21 NOV 66	

[illegible] IN DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
IN SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577							RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289-3	1021289 -3	1021289 -3			1021289 -3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40	60
	1021289-4	1021289 -4	1021289 -4			1021289 -4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40	59
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303-011	1021303-011	1021303-011			1021303-011		1021303-011						1	FRAME MACHINING ASSY		40	154
	1015500-081	1015500-081	1015500-081			1015500-051								2	CDU ASSEMBLY		40	153
	1015500-071	1015500-071	1015500-071			1015500-041		1015500-071 (5)						3	CDU ASSEMBLY		40	152
	1021302-011	1021302-011	1021302-011			1021302-011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304-011	1021304-011	1021304-011			1021304-011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106-021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11		149
	1021255 -041	1021255 -041	1021255 -041		1021255-021	1021255 -021		1021255 -031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
																		146
							1026034 REV. C	1026056 REV.-						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026062 REV. -						1	G&N ALARMS AND INTERRUPT TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV.-						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. A	1026063 REV-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026060 REV.-						1	G&N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026059 REV.-						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV. - B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -							1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026055 REV. A						1	AGC OPERATIONAL TEST,	SEE NOTE 12	55	133
																		132
																		131
																		30
																		129
																		128
																		127
	1026139 REV-		1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV.-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV. A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	20
	1026117 REV-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV. A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV.-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2016858							1	WIRING HARNESS			115
							100.496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 -8								CLAMP LOOP			113
							1010705 -6							1	CLAMP LOOP			112
							1010705 -5							1	CLAMP LOOP			11

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R A Jones Oct 11 1965
CHECKED
APPROVED
APPROVED D H G A
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 BK

2/1014999

							1010705-4							1	CLAMP LOOP	
							1010400-9							1	CLAMP, HINGED LOOP	
							1010400-4							2	CLAMP, HINGED LOOP	
							2007209							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400-5	1010400-[illegible]	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
														1	LENS CLEANING KIT	
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
	2011786	2011786	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS	
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-221	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (5)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL	
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY	
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10	
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG	
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007160	1007257-011		POWER AND SERVO ASSY	REFERENCE
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-011	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003180	1	AGC TOE PLATE	
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
												1003189-011	1003189	1	AGC END CONNECTOR ASSY	
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY	
												1003493-011	1003184	1	MEMORY TRAY B ASSY	
												1003488-011	1003187	1	LOGIC TRAY A ASSY	
	1003700-0[illegible]1	1003700-051	1003700-051	1003700-051	1003700-051	1003565-0[illegible]1	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-1[illegible]1	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP'S	206,225, 232, 234, 240, 243,246, 265, 266, 267, 268,269, 270, 180,169, 354, 75, 209, 290, 429, 407, 441, 438, 202, 174, 418, 463	234,160,225,240, 182, 243, 246,267,270, 183, 265,184,187,189, [illegible] 175, 266,268,269,219, 211, 206 232 169,354, 209,290,429 407, 438 335,348 202,441 174,418,463	171, 60,234,180,265, [illegible], 267,270, 206,211,219 [illegible],225,240,243,246 [illegible] 347, 209 [illegible] 351 290 123, [illegible] 407 441,438 202, 348,444, 327 174,118,446,427,463	234, 225,123, 175,180 182, 183, 184, 187, 189 207, 252,295,290,337	169, 171, 175 180 182, 183 184 187 189 207 123, 232, 234,240, 243, 246,252, 265, 290,295, 337,267.	171, 234, [illegible], 246,240, [illegible] 225,267,268,243, 266,269,270, [illegible] 189, 21 [illegible], 175 232,183, 184,187 354,169,290 123,337	25,84,177,147,109,111, [illegible] 182,183,184 185,186,187, 88,189 190,195, 208,212, 175 180,137,246,251,266, [illegible] 30,290, 425,426.	177,147,11,114,171,30,84 62 THRU 190,195,37, 208,212,175,25,83,232, 160,219,246,240,265, 277,211,165,250,253,268, [illegible],234,16[illegible] 290 354,269,438,267 202,441,429,407,4[illegible] 327,174,426,444,243	20,63,96,177,25,234, 116, 160, [illegible], 114, 109, 147, 182,183,185,187, 188,195,208,212, 171, 223,189,184,169,130, 159,180,175,206,[illegible] [illegible],202,407, 328,174	2, TD203,[illegible],224	2, CO 17,347	2,9,6,234	6,25,234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP'S	427	427		174,211, 269,232, 202, 206	174,202,206, 209,211, 354 407,427,269,427 327	174 202 209 407 327			426 327	130 175						
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES [illegible] RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µF
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

NEXT ASSY | USED ON

APPLICATION

1/1014999

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
						1010705-4							1	CLAMP LOOP			110
						1010400-9							1	CLAMP, HINGED LOOP			109
						1010400-4							2	CLAMP, HINGED LOOP			108
						2007258							1	AIRBORNE AMPLIFIER PLATE ASSY			107
						2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
													1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400-5	1010400-	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
													1	LENS CLEANING KIT		55	97
2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011786	1011786	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
						1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2011734	2011734	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
2011786	2011786	2012699	[illegible]	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-221	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
		-	1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
			1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
			1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
			1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
			1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
			AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
						1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD1	1003553-011	1003495-011	1003459-MD2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-011	1003570-011	1003706-051	1003570-021	1003524 MD1	1003524 MD1	1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
												1003457	1	AGC CONN COVER PLATE		5	13
												1003190	1	AGC TOE PLATE		5	12
											1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
											AN 104608	AN 104608	4	SCREW, HEX HD		5	10
											AN 104606	AN 104606	4	SCREW, HEX HD		5	9
											1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
											1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
											1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
											1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
											1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
											1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-0[illegible]	1003700-051	1003700-031	1003700-051	1003700-051	1003565-011	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD1	1003186 MD2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-1[illegible]1	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290, 429, 407, 441, 438, 202, 174, 418, 463	234, 160, 225, 240, 182, 243, 246, 267, 270, 183, 265, [illegible], 575, 266, 268, 269, 219, 211, 206, 232, 169, 354, 209, 290, 429, [illegible], 438, 335, 348, 202, 441, 174, 418, 463	171, 160, 234, 180, 265, [illegible], 267, 270, 206, 211, 129, [illegible], 225, 240, 243, 246, [illegible], 268, 269, 347, 209, [illegible], 354, 290, 123, [illegible], 407, 441, 438, 202, 348, 444, 327, 174, 118, 446, 427, 463	234, 225, 123, 175, 180, 182, 183, 184, 187, 189, 207, 252, 295, 290, 337	169, 171, 175, 180, 182, 183, 184, 187, 189, 207, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 246, 240, [illegible], 225, 267, 266, 243, 266, 269, 270, [illegible], 175, 232, 183, 184, 187, 354, 169, 290, 123, 337	2, 84, 177, 147, 109, 111, [illegible], 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175, 180, 37, 246, 251, 266, [illegible], 290, 425, 426.	177, 147, 111, 114, 171, 130, 84, 182 THRU 190, 195, 137, 208, 212, 175, 25, 83, 232, 160, 219, 246, 240, 265, 277, 211, 165, 250, 253, 268, [illegible], 234, [illegible], 290, 354, 269, 438, 267, 202, 441, 429, [illegible], 463, 327, 174, 426, 444, 243	20, 63, 96, 177, 25, 234, 116, 160, 111, 114, 109, 147, 182, 183, 185, 187, 188, 195, 208, 212, 171, 223, 189, 184, 169, 130, 159, 180, 175, 206, 240, [illegible], 202, 407, 328, 174	2, TD203, [illegible], 224	2, CC 17, 347	2, 9, 6, 234	6, 25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
427	427.		174, 211, 269, 232, 202, 206	354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407, 327			426, 327	130, 175								
-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS T[illegible] 3647

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/4/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26806	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	[illegible] 66	
AU		REVISION STATUS CHANGED	GW	JL	[illegible] 66	
AV		REVISED PER TDRR 30589	RLW	JI	[illegible] 66	-
AW		REVISED PER TDRR 30692	RLW	JI	[illegible] 66	
AY		REVISED PER TDRR 30818	TA	RLW	3 SEP 66	
AZ		REVISED PER TDRR 30921		RLW	[illegible]	
BA		REVISED PER TDRR 31018	JJB	NS	14 SEP 66	-
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RLW	10 OCT 66	
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISED PER TDRR 31571	JC		22 OCT 66	
BG		REVISED PER TDRR 31632	W.A.		1 NOV 66	
BH		REVISED PER TDRR 31731	WA	RLW	7 NOV 66	
BJ		REVISION STATUS CHANGED	WA	RLW	8 NOV 66	
BK		REVISED PER TDRR 31930	WA		21 NOV 66	
BL		REVISION STATUS CHANGED	EC		29 NOV 66	

(H) REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K-START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
[illegible]000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones Sep 13 1965
CHECKED A.J. Crampe 13 Sep 65
APPROVED T.J. [illegible] [illegible] 65
APPROVED D. HOAG PER TDRR [illegible]
APPROVED MIT [illegible] 15 Sep
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

27/1014999

10 9 8 7 6 5 4 3

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-00[illegible]	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	[illegible]
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		10
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		10
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		10
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		10
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		10
	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04LL6			NAS 1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		10
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		10
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		10
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		10
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		10
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		10
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	10
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	10
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	[illegible]
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		52
								1026064 REV.-						1	G&N, SCS INTERFACE TEST	SEE NOTE 12	55
							1026034 REV. C	1026056 REV. A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
							1026014 REV. -	1026055 REV. A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
							1026015 REV. B	1026053 REV.-						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
							1026012 REV. B	1026052 REV.-						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
							1026011 REV. A	1026054 REV.-						1	G & N POLARITY TEST	SEE NOTE 12	55
							1026024 REV -	1026049 REV.-						1	GIMBAL FRICTION TEST	SEE NOTE 12	55
							1026022 REV -	1026050 REV.-						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
							1026035 REV -	1026057 REV. - B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
							1026051 REV -	1026061 REV.-						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
								1026058 REV.-						1	GIMBAL POSITION TEST	SEE NOTE 12	55
								1026059 REV.-						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55
								1026062 REV.-						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55
								1026063 REV.-						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55
	1026138 REV-													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55
	1026117 REV-													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55
	1026139 REV-		1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
	1026119 REV-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
			1026045 REV-				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
	1026115 REV A		1026041 REV-				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
	1026117 REV-		1026043 REV-				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55
	1026118 REV-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
									1008268					1	WIRE HARNESS G	SEE NOTE 9	
							2018898							1	WIRING HARNESS		
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
							1010705 8								CLAMP LOOP		
							1010705 - 6							1	CLAMP LOOP		
							1010705 - 5							1	CLAMP LOOP		
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN [illegible]
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

10 9 8 7 6 5 4 3

1/1014999

REVISIONS 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-12-66	[illegible]
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	[illegible]
AM		REVISED PER TDRR 28867	"		5-24-66	[illegible]
AN		REVISED PER TDRR 29164	"		5-31-66	[illegible]
AP		REVISED PER TDRR 29188	"		6-9-66	[illegible]
AR		REVISED PER TDRR 29362	"		6-13-66	[illegible]
AS		REVISED PER TDRR 29716	"		6-29-66	[illegible]
AT		REVISION STATUS CHANGED	RPS	JI	3 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	TR	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	MF	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISION STATUS CHANGED	JC	RLW	22 OCT 66	
BG		REVISED PER. TDRR 31632	WA	[illegible]	1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	8 NOV 66	
BK		REVISED PER TDRR 31930	WA	[illegible]	21 NOV 66	
BL		REVISED PER TDRR 32002	EC	[illegible]	23 NOV 66	

DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 031	1021255 - 031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
								1026064 REV. -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
							1026034 REV. C	1026056 REV. A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026055 REV. A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV. -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. B	1026052 REV. -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026054 REV. -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026049 REV. -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -	1026050 REV. -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV. - B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -	1026061 REV. -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026058 REV. -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
								1026059 REV. -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
								1026062 REV. -						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
								1026063 REV. -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
																		129
	1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
	1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
	1026139 REV -		1026044 REV -				1026100 REV.A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2018658							1	WIRING HARNESS			115
							1000496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1000705 8								CLAMP LOOP			113
							1000705 - 6							1	CLAMP LOOP			112
							1000705 - 5							1	CLAMP LOOP			11
[illegible]	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 11 1965
CHECKED A J [illegible] Oct 5 1965
APPROVED
APPROVED D. HOAG PER TD... WK
APPROVED MIT [illegible] 6 Oct
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 SIZE J DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

2/1014999

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
						1010705 - 4							1	CLAMP LOOP	
						1010400 - 9							1	CLAMP, HINGED LOOP	
						1010400 - 4							2	CLAMP, HINGED LOOP	
						2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
						2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
													1	FLIGHT-DATA BOOK	
1000110-307	1000110-307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD	
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
1010400- 5	1010400- 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 -7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 -7	1010400 - 7			1	CLAMP, HINGED LOOP	
1007585-011	1007585-011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY	
2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011786	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
						1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
2011734	2011734	2011734	2011734	2011734	2011734	1011734 - 001	1011734 -001	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 -000	1	SCT PRISM HOUSING ASSY	
2011786	2011786	1013009	2011786	2011786	2011786	1011786 - 001	1013009	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 -000	1	SXT MIRROR HOUSING ASSY	
2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
2012719	2012719	1011960-001	2011960	2011960	2011960	1011960 - 001	1011960-001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY	
1011625 - 39 (5)	1011625 - 39 (5)	1011625-39 (5)	1011625-39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-5	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS	
1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD	
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS	
1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS	
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
1899950 - 191	1899950 - 211	1899950 - 291	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 251	1899950 - 271	1899950 - 221	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
			1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP	
1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP	
			1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP	
			1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP	
1010400 (0)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5
			1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP	
			1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP	
1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606 - 051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G&N PANEL	
2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G&N PANEL	
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY	
1015064 - 021	1015064 - 021	1015064 - 031	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY	
1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY	
1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10	
1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9	
1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8	
1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG	
1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7	
1007576 - 021	1007576 - 021	1007576 - 031	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6	
1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5	
1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4	
1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3	
1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2	
1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1	
1007570 - 021	1007570 - 021	1007570 - 031	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE
			AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD	
			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
			1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY	
			1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY	
			1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY	
			1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4
			1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE
1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
1007700 - 051	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
						1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4
1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY	
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337 - 80	2	WASHER, LOCK	
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795 - 807	2	WASHER, FLAT	
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995 - 26	2	SCREW, SOC HD	
1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE	
1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
1003706-051	1003706-051	1003706 - 051	1003706 - 031	1003706 - 031	1003577 - 011	1003570 - 011	1003706 - 051	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
MS 15795 - 808	MS 15795 - 808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795 -808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT	
1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC	
1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC	
1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
MS 16996 - 10	MS 16996 - 10	MS 16996-10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX	
MS 16996 - 13	MS 16996 - 13	MS 16996-13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX	
												1003457	1	AGC CONN COVER PLATE	
												1003180	1	AGC TOE PLATE	
											1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC	
											AN 104608	AN 104608	4	SCREW, HEX HD	
											AN 104606	AN 104606	4	SCREW, HEX HD	
											1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
											1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC	
											1003489 - 011	1003189	1	AGC END CONNECTOR ASSY	
											1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY	
											1003493 - 011	1003184	1	MEMORY TRAY B ASSY	
											1003488 - 011	1003187	1	LOGIC TRAY A ASSY	
1003700 - 011	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 011	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - [illegible]	1003770 - [illegible]	1003770 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE

INCORPORATED ECP's	205, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, [illegible], 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 246, 240, 265, 225, 267, 228, 243, 266, 269, 270, 412, 285, 175, 232, 354, 169, 290, 123, 337	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463	2, 20, 25, 63, 96, 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407	2, TD203, 234, 224	2, CO17	2, 9, 234	25, 234
OUTSTANDING ECP's	427	427		174, 211, 209, 232, 202, 206	270, 354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407			426, 327	130 175	234		
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N-17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
DO NOT SCALE THIS DRAWING
MATERIAL
NEXT ASSY
USED ON
APPLICATION

1/1014999

	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705 - 4							1	CLAMP LOOP			110
							1010400 - 9							1	CLAMP, HINGED LOOP			109
							1010400 - 4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018699							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
																		97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	1011734 - 001	1011734 - 001	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	1013009	2011786	2011786	2011786	1011786 - 001	1013009	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	1011960-001	2011960	2011960	2011960	1011960 - 001	1011960-001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 45 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL. SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899975	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 191	1899950 - 211	1899950 - 291	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 251	1899950 - 271	1899950 - 221	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
				1010400 - 8	1010400 - 9	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
				1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606 - 051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G&N PANEL		50	66
	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G&N PANEL		50	65
																		64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 031	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG		45	51
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 021	1007576 - 021	1007576 - 031	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 021	1007570 - 021	1007570 - 031	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007160	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY		40	40
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 051	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337 -80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337 - 80	2	WASHER, LOCK		5	30
	MS 15795 - 807 (4)	MS 15795-807 (4)	MS 15795 - 807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795 -807 (4)	MS 15795 -807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT		5	29
	MS 16995 - 26 (4)	MS 16995-26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995-26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD		5	28
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670 - 041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 051	1003706 - 051	1003706 - 051	1003706 - 031	1003706 - 031	1003577 - 011	1003570 - 011	1003706 - 051	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004726	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795 -808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 0[illegible]1	1003700 - 051	1003700 - 031	1003700 - 051	1003700 - 051	1003565 - 0[illegible]1	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 1[illegible]1	1003770 - 1[illegible]1	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
RPORATED	206,225, 232, 234, 240, 243,246, 265, 266, 267, 268 269, 270 180,169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463	234,180,225,240, 243,246,267,270, 265,295,175,211, 266,268,269,219, 266,232 169,354, 209,290,429,407, 348,335,438,441, 418,463	171,160,234,180,265, 267,270,206,211,219, 225,240,243,246, 169,175,[illegible],268,269, 347,209,232,354 290, 123,429 407,441,438, 348 444, 327, 418,446,427,463	234, 225,123,180, 252,295,290,337	169,180, 123,232,234,240,243, 246,252,265,290,295, 337,267.	171,234,206,246,240, 265,225,267,268,243, 266,269,270,412, 285, 175, 232, 354,169,290, 123,337	25,130,137,175, 177,180,190,206, 232,234,246,251, 266,290,425,426	25,83,84,130,137, 160,165,169,175, 177,180,190,206, 211,219,232,234, 243,250,265,277 290,327,354,407, 426,429,438,441, 444,463	2,20,25,63,96, 109 116,130,159, 160,169,177,180, 206,208,223,234 290,328,332,407	2, TD203,234,224	2, CO17	2,9, 234	25,234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G ECP	427	427		174,211,209,232, 202, 206	270,354, 174,202,206,209,211, 407,427,269,427 327	174 202 209,407,			426,327	130 175	234							
DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
IS	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TD&I 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			[illegible]	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/1/65	WK
L		REVISED PER TDRR 23502			10/[illegible]/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28667	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	AUG 66	
AU		REVISION STATUS CHANGED	GW	JI	AUG 66	
AV		REVISED PER TDRR 30589	RLW	JI	AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	AUG 66	
AY		REVISED PER TDRR 30818	TH	RLW	[illegible]	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13SEP66	
BA		REVISED PER TDRR 31018	JJB	NS	14SEP66	
BB		REVISED PER TDRR 31248	ME	RLW	29SEP66	
BC		REVISED PER TDRR 31361	EC	RLW	10OCT66	
BD		REVISED PER TDRR 31468	EC	RLW	11OCT66	
BE		REVISED PER TDRR 31523	JC	RLW	22OCT66	
BF		REVISED PER TDRR 31571	JC		22OCT66	
BG		REVISED PER TDRR 31632	W.A.		1NOV66	
BH		REVISED PER TDRR 31731	WA	RLW	7NOV66	
BJ		REVISION STATUS CHANGED	WA	RLW	8NOV66	
BK		REVISED PER TDRR 31930	WA		21NOV66	
BL		REVISION STATUS CHANGED	EC		29NOV66	
BM		REVISED PER TDRR 32004	EC		30NOV66	

(H) REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 50 AND 51 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N-17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R.A. Jones Sept 13 1965
CHECKED 13 Sept 65
APPROVED 13 Sept 65
APPROVED D. HOAG PER TDRR WK
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

1014999

271014999

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

										1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55
										1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
		1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
		1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
		1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40
		1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40
		1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
		NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04 LL6			NAS 1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		40
		1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
		1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
		1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40
		1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40
		1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40
		1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
		1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	
		1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 031	1021255 - 031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
									1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 12	55
								1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
								1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
								1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
								1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
								1026011 REV. A	1026054 REV -						1	G&N POLARITY TEST	SEE NOTE 12	55
								1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55
								1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
								1026035 REV -	1026057 REV. - B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55
								1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
								1026051 REV -	1026061 REV -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
									1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55
									1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55
									1026062 REV -						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55
									1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55
		1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55
		1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55
		1026139 REV -		1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
		1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
										1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
		1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
		1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
		1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55
		1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
										1008268					1	WIRE HARNESS G	SEE NOTE 9	
								2018898							1	WIRING HARNESS		
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
								1010705 8							1	CLAMP LOOP		
								1010705 - 6							1	CLAMP LOOP		
								1010705 - 5							1	CLAMP LOOP		
CONFIGURATION DASH NO.		-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQU
G & N SYSTEMS		123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

1/1014999

REVISIONS		C64C7				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22204			10/4/65	WR
J		REVISED PER TDRR 23205			[illegible]	WR
K		REVISED PER TDRR 23259			10/19/65	WR
L		REVISED PER TDRR 23502			[illegible]	WR
M		REVISED PER TDRR 23620	RAJ		11-2-65	WR
N		REVISED PER TDRR 23926	RAJ		11-9-65	WR
P		REVISED PER TDRR 24056	RAJ		11-18-65	WR
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WR
T		REVISED PER TDRR 24674	RAJ		12-14-65	WR
U		REVISED PER TDRR 24792	RAJ		12-20-65	WR
V		REVISED PER TDRR 24938	RAJ		12 28 65	WR
W		REVISED PER TDRR 25324	RAJ		1-17-66	WR
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WR
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WR
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WR
AB		REVISED PER TDRR 26620	"		2-23-66	WR
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WR
AE		REVISED PER TDRR 27175	"		3-15-66	WR
AF		REVISED PER TDRR 27353	"		3-22-66	WR
AG		REVISED PER TDRR 27751	"		4-5-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-13-66	[illegible]
AJ		REVISED PER TDRR 28206	"		4-28-66	WR
AK		REVISED PER TDRR 28374	"		5-3-66	WR
AL		REVISED PER TDRR 28732	"		5-12-66	[illegible]
AM		REVISED PER TDRR 28867	"		5-24-66	[illegible]
AN		REVISED PER TDRR 29164	"		5-31-66	[illegible]
AP		REVISED PER TDRR 29188	"		6-9-66	[illegible]
AR		REVISED PER TDRR 29362	"		6-13-66	[illegible]
AS		REVISED PER TDRR 29716	"		6-29-66	[illegible]
AT		REVISION STATUS CHANGED	RPS	JI	9 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	[illegible]	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR [illegible]	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	[illegible]	22 OCT 66	
BF		REVISION STATUS CHANGED	JC	[illegible]	22 OCT 66	
BG		REVISED PER. TDRR 31632	WA	[illegible]	[illegible] NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	9 NOV 66	
BK		REVISED PER TDRR 31930	WA	EB	21 NOV 66	
BL		REVISED PER TDRR 32002	EC	EB	28 NOV 66	
BM		REVISION STATUS	EC	EB	30 NOV 66	

ON DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEM	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	[illegible]	149
	1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 031	1021255 - 031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
								1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV - B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -	1026061 REV -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
								1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
								1026062 REV -						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
								1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
																		129
	1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
	1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
	1026139 REV -		1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8							[illegible]	CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED A J [illegible] Oct 5 1965
APPROVED
APPROVED D. HOAG per [illegible]
APPROVED MIT W [illegible] 6 Oct 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 BM

271014999

														QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
							1010705-4							1	CLAMP LOOP	
							1010400-9							1	CLAMP, HINGED LOOP	
							1010400-4							2	CLAMP, HINGED LOOP	
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011766	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2011734	2011734	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
	2011786	2011786	1013009	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2012719	2012719	1011960-001	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT, BELLOWS	
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-221	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL	
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY	
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10	
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG	
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003180	1	AGC TOE PLATE	
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
												1003489-011	1003189	1	AGC END CONNECTOR ASSY	
												1003197-011	1003197	1	G & N HARNESS TRAY ASSY	
												1003493-011	1003184	1	MEMORY TRAY B ASSY	
												1003488-011	1003187	1	LOGIC TRAY A ASSY	
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP'S	206,225, 232, 234, 240, 243,246, 265, 266, 267, 268,269, 270, 180,169, 354,175, 209, 290, 429, 407, 441, 438, 418, 463	234,180,225,240, 243,246,267,270, 265,295,175,211, 266,268,269,219, 206,232,169,354, 209,290,429,407, 348,335,438,444, 418,463	171,160,234,180,265, 267,270,206,211,219, 225,240,243,246, 252,295, 169,175,266,268,269, 347,209,232,354,290, 123,429,407,441,438, 348,444, 327, 418,446,427,463	234, 225,123,180, 252,295,290,337	169,180, 123,232,234,240,243, 246,252,265,290,295, 337,267.	171,234,206,246,240, 265,225,267,268,243, 266,269,270,412, 285, 175, 232, 354,169,290, 123,337,412	25,130,137,175, 177,180,190,206, 232,234,246,251, 266,290,425,426	25,83,84,130,137, 160,165,169,175, 177,180,190,206, 211,219,232,234, 243,250,265,277 290,327,354,407, 426,429,438,441, 444,463	2,20,25,63,96, 109 116,130,159, 160,169,177,180, 206,208,223,234 290,328,332,407	2, TD203, 234,224	2, CO 17	2,9, 234	25,234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP'S	0474 427	427,0474	0456, 0469, 0474	174,211,209,232, 202, 206	0456 270,354, 174,202,206,209,211, 407,427,269,427 327	174, 202,209,407,		0456, 0474	426,327	130. 175	234					
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS/A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

ND 1000000

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN RESISTOR VALUES ARE IN TOLERANCES ON FRACTIONS DECIMALS ± ± DO NOT SCALE THIS DRAWING

MATERIAL

1/1014999

							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																		97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011766	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011767	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	1013009	2011786	2011786	2011786	1011786-001	1013009	1013009	1011785-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	1011960-001	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-221	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (6)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
																		64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-10	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
PORATED P'S	206,225, 232, 234, 240, 243,246, 265, 266, 267, 268,269, 270, 180,169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463	234,180,225,240, 243,246,267,270, 265,295,175,211, 266,268,269,219, 206,232,169,354, 209,290,429,407, 348,335,438,441, 418,463	171,160,234,180,265, 267,270,206,211,219, 225,240,243,246, 252,295, 169,175,266,268,269, 347,209,232,354,290, 123,429,407,441,438, 348,444, 327, 418,446,427,463	234, 225,123,180, 252,295,290,337	169,180, 123,232,234,240,243, 246,252,265,290,295, 337,267. 0456	171,234,206,246,240, 265,225,267,268,243, 266,269,270,412, 285, 175, 232, 354,169,290 123,337,412	25,130,137,175, 177,180,190,206, 232,234,246,251, 266,290,425,426	25,83,84,130,137, 160,165,169,175, 177,180,190,206, 211,219,232,234, 243,250,265,277 290,327,354,407, 426,429,438,441, 444,463	2,20,25,63,96, 109,116,130,159, 160,169,177,180, 206,208,223,234 290,328,332,407	2, TD203, 234,224	2, CO17	2,9, 234	25,234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
TANDING G	0474, 427	427,0474	0456, 0469, 0474	174,211,209,232, 202, 206	270,354, 174,202,206,209,211, 407,427,269,427 327	174 202,209,407,		0456, 0474	426,327	130, 175	234							
ATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/4/65	
J		REVISED PER TDRR 23203			10/13/65	
K		REVISED PER TDRR 23259			10/18/65	
L		REVISED PER TDRR 23502			10/26/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	
AA		REVISED PER TDRR 26318	RAJ		2-15-66	
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	
AE		REVISED PER TDRR 27175	"		3-15-66	
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-6-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	
AK		REVISED PER TDRR 28374	"		5-3-66	
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28667	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI	[illegible]	
AU		REVISION STATUS CHANGED	GW	JI	[illegible]	
AV		REVISED PER TDRR 30589	RLW	JI	[illegible]	
AW		REVISED PER TDRR 30692	RLW	JI	[illegible]	
AY		REVISED PER TDRR 30818	TB	RLW	5 SEPT 66	
AZ		REVISED PER TDRR 3[illegible]21				
BA		REVISED PER TDRR 31018	JJB	NS	14 SEPT 66	
BB		REVISED PER TDRR 31248	ME	RLW	29 SEPT 66	
BC		REVISED PER TDRR 3136[illegible]	EC	RLW	[illegible] OCT 66	
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISED PER TDRR 31571	JC		22 OCT 66	
BG		REVISED PER TDRR 31632	WA		[illegible] 66	
BH		REVISED PER TDRR 31731	WA	RLW	7 NOV 66	
BJ		REVISION STATUS CHANGED	WA	RLW	8 NOV 66	
BK		REVISED PER TDRR 31930	WA		21 NOV 66	
BL		REVISION STATUS CHANGED	EC		29 NOV 66	
BM		REVISED PER TDRR 32004	EC		30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	

Ⓗ REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS/A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones Sept 13 1965
CHECKED 13 Sept 65
APPROVED 14 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	1014999

SCALE — SHEET 1 OF 2

1014999 BN

271014999

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24
FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION

TABLE I (SEE NOTE 4)

										1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55
										1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55
										1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
										1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55
										1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55
										1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55
										1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55
		1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
		1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
		1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40
		1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40
		1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
		NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40
		1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
		1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
		1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40
		1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40
		1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40
		1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
		1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
								1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55
		1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
									1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 12	55
								1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
								1026014 REV. -	1026055 REV A						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
								1026015 REV B	1026053 REV -						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
								1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
								1026011 REV. A	1026054 REV -						1	G&N POLARITY TEST	SEE NOTE 12	55
								1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55
								1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
								1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
								1026035 REV -	1026057 REV - B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55
								1026047 REV -							1	ACE-G&N 132-OPT D E-MEMORY	SEE NOTE 12	55
								1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55
								1026051 REV -	1026061 REV -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
									1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55
									1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55
									1026062 REV -						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55
									1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55
		1026138 REV-													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55
		1026117 REV-													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55
		1026139 REV-	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
		1026119 REV-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
										1026019 REV -					1	K START CONTROL MISSION PPOFILE	SEE NOTE 10	55
								1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
				1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
								1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
		1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
		1026117 REV-		1026043 REV -				1026003 REV -	1026026 REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
		1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55
		1026118 REV-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9	
								2C18898							1	WIRING HARNESS		
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
								1010705 8							1	CLAMP LOOP		
								1010705 - 6							1	CLAMP LOOP		
								1010705 - 5							1	CLAMP LOOP		
CONFIGURATION DASH NO.		-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	
G&N SYSTEMS		123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ±
DO NOT SCALE THIS DRAWING
MATERIAL

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	[illegible]
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12 28 65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	MCM
AH		REVISED PER TDRR 27933	"		4-13-66	MCM
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	MCM
AM		REVISED PER TDRR 28867	"		5-24-66	MCM
AN		REVISED PER TDRR 29164	"		5-31-66	MCM
AP		REVISED PER TDRR 29188	"		6-9-66	MCM
AR		REVISED PER TDRR 29362	"		6-13-66	MCM
AS		REVISED PER TDRR 29716	"		6-29-66	MCM
AT		REVISION STATUS CHANGED	[illegible]	JI	[illegible] AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR [illegible]	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	M.L.	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	[illegible]	22 OCT 66	
BF		REVISION STATUS CHANGED	JC	[illegible]	22 OCT 66	
BG		REVISED PER. TDRR 31632	WA	[illegible]	1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	9 NOV 66	
BK		REVISED PER TDRR 31930	WA	EJ	21 NOV 66	
BL		REVISED PER TDRR 32002	EC	EJ	29 NOV 66	
BM		REVISION STATUS	EC	EJ	30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	

DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
EVS	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04LL6			NAS 1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 031	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
								1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV. - B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G & N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C							1	CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -	1026061 REV -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
								1026059 REV-						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
								1026062 REV-						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
								1026063 REV-						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
																		129
	1026138 REV-													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
	1026117 REV-													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
	1026139 REV-	1026100 REVB	1026044 REV -				1026100 REVA	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PPOFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV-				1026016 REV -	1026018 REV-	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV-	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV A		1026041 REV-				1026004 REV -	1026028 REV-	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV-		1026043 REV-				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS 'G'	SEE NOTE 9		116
							2C18898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8							1	CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 -5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R.A. Jones
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
DATE
SCALE
SHEET 2 OF 2

1014999 BN

2/1014999

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							1010705 - 4							1	CLAMP LOOP	
							1010400 - 9							1	CLAMP, HINGED LOOP	
							1010400 - 4							2	CLAMP, HINGED LOOP	
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP	
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY	
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011786	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2012667	2012667	2011734	2011734	2011734	2011734.	1011734 - 001	1011734 - 001	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY	
	2012699	2012699	1013009	2011786	2011786	2011786	1011786 - 001	1013009	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY	
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2012719	2012719	1011960 - 001	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY	
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS	
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950 - 191	1899950 - 211	1899950 - 291	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 251	1899950 - 271	1899950 - 261	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP	
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010706 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP	
				1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP	
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP	
				1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP	
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606 - 051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G&N PANEL	
	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G&N PANEL	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY	
	1015064 - 021	1015064 - 021	1015064 - 031	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY	
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY	
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY	
	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10	
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG	
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576 - 021	1007576 - 021	1007576 - 031	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570 - 021	1007570 - 021	1007570 - 031	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY	
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY	
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY	
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700 - 051	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4
	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY	
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	2	WASHER, LOCK	
	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT	
	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD	
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670 - 041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706 - 051	1003706 - 051	1003706 - 051	1003706 - 031	1003706 - 031	1003577 - 021	1003570 - 011	1003706 - 051	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT	
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC	
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX	
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003190	1	AGC TOE PLATE	
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC	
												1003189 - 011	1003189	1	AGC END CONNECTOR ASSY	
												1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY	
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY	
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY	
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 041	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 1[illegible]1	1003770 - 1[illegible]1	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 75, 209, 290, 429, 407, 441, 438, 418, 463	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, [illegible], 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463,	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, [illegible], 169, 175, [illegible], 268, 269, 347, 209, [illegible], 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, [illegible], 246, 240, [illegible], 225, 264, 266, 243, 266, 269, 270, 412, 265, 175, 232, 354, 169, 290, 123, 337, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463, 456	2, 20, 25, 63, 96, 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, [illegible], 224	2, CO 17	2, 9, 234	25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP's	0474, 427	427, 0474	0456, 0469, 0474	174, 211, 209, 232, 202, 206	0456 270, 354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407,		0474	327	130, 175	234					
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPE
DIMENSIONS ARE IN IN
CAPACITOR VALUES ARE
RESISTOR VALUES ARE
TOLERANCES ON
FRACTIONS DECIMAL
± — ± —
DO NOT SCALE THIS D
MATERIAL

ND 1000000	
NEXT ASSY	USED ON
APPLICATION	

171014999

IGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					
							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																		97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011786	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2012667	2012667	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2012699	2012699	1013009	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	1011960-001	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL		50	65
																	65	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573 031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004733	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003190	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-0[illegible]1	1003700-051	1003700-0[illegible]1	1003700-051	1003700-051	1003565-041	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-1[illegible]1	1003770-1[illegible]1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
CORPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463,	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, [illegible], 169, 175, [illegible], 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267, 0456	171, 234, 206, 216, 240, 225, 267, 268, 243, 266, 269, 270, 412, 265, 175, 232, 354, 169, 290, 123, 337, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463, 456	2, 20, 25, 63, 96, 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, 234, 224	2, CO17	2, 9, 234	25, 234					
TSTANDING ECP'S	0474, 427	427, 0474	0456, 0469, 0474	174, 211, 209, 232, 202, 206	270, 354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407,		0474	327	130 175	234							

REVISIONS TDRR 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/7/65	WK
J		REVISED PER TDRR 23203				WK
K		REVISED PER TDRR 23259			10/11/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R	(A)	REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 2[illegible]	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"			WK
AF		REVISED PER TDRR 27353	"		3-22-66	
AG		REVISED PER TDRR 27751	"		4-8-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28667	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JI		
AU		REVISION STATUS CHANGED	GW	JI		
AV		REVISED PER TDRR 305[illegible]	RLW	JI		
AW		REVISED PER TDRR 30698	RLW	JI		
AY		REVISED PER TDRR 30818		RLW		
AZ		REVISED PER TDRR [illegible]				
BA		REVISED PER TDRR 31018	JJB	NS		
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISED PER TDRR 31361	EC	RLW		
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC			
BF		REVISED PER TDRR 31571	JC		22 OCT	
BG		REVISED PER TDRR 31632	WA		1 NOV	
BH		REVISED PER TDRR 31731	WA	RLW	7 NOV 66	
BJ		REVISION STATUS CHANGED	WA	RLW	3 NOV 66	
BK		REVISED PER TDRR 31930	WA		21 NOV	
BL		REVISION STATUS CHANGED	EC		29 NOV 66	
BM		REVISED PER TDRR 32004	EC		30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC	
BP		REVISED PER TDRR 32284	VM		21 DEC	

(H) REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 50 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R.A. Jones Sept 15 1965
CHECKED 15 Sept 65
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

1014999 BP

2/1014999

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24
FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION

TABLE I (SEE NOTE 4)

									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	
	1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 051	1021255 - 031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		
								1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 12	55
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
							1026011 REV. A	1026054 REV -						1	G&N POLARITY TEST	SEE NOTE 12	55
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55
							1026035 REV -	1026057 REV. B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55
							1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	56
							1026051 REV -	1026061 REV -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55
								1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55
								1026062 REV -						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55
								1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55
	1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55
	1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55
	1026139 REV -	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
	1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
			1026045 REV --				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55
	1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
									1008268					1	WIRE HARNESS G	SEE NOTE 9	
							2018898							1	WIRING HARNESS		
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
							1010705 8							1	CLAMP LOOP		
							1010705 - 6							1	CLAMP LOOP		
							1010705 - 5							1	CLAMP LOOP		
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQU CCI
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

1/1014999

SYM	ZONE	DESCRIPTION (REVISIONS C6407)	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			[illegible]	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12 28 65	WK
W		REVISED PER TDRR 25324	RAJ		1 17 66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	MKM
AH		REVISED PER TDRR 27933	"		4 15 66	MKM
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	MKM
AM		REVISED PER TDRR 28867	"		5-24-66	MKM
AN		REVISED PER TDRR 29164	"		5-31-66	MKM
AP		REVISED PER TDRR 29188	"		6 9 66	MKM
AR		REVISED PER TDRR 29362	"		6-13-66	MKM
AS		REVISED PER TDRR 29716	"		6 29 66	MKM
AT		REVISION STATUS CHANGED	RPS	JI	3 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	29 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	[illegible]	22 OCT 66	
BF		REVISION STATUS CHANGED	JC	[illegible]	22 OCT 66	
BG		REVISED PER. TDRR 31632	WA	[illegible]	1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	9 NOV 66	
BK		REVISED PER TDRR 31930	WA	[illegible]	21 NOV 66	
BL		REVISED PER TDRR 32002	EC	[illegible]	29 NOV 66	
BM		REVISION STATUS	EC	[illegible]	30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	
BP		REVISED PER TDRR 32284	VM	[illegible]	21 DEC 66	

IRATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
								1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 12	55	146
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026055 REV A						1	G&N ALARMS AND INTERRUPT TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV -						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026054 REV -						1	G&N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV. B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	AGC-G&N 132 OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -	1026061 REV -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
								1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
								1026062 REV -						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
								1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
																		129
	1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
	1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
	1026139 REV -	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8								CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R a Jones Oct 4 1965
CHECKED
APPROVED
APPROVED D. HOAG
PER TDRR WK
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 BP

2/1014999

NOTICE – [illegible]

							1010705-4							1	CLAMP LOOP	
							1010400-9							1	CLAMP, HINGED LOOP	
							1010400-4							2	CLAMP, HINGED LOOP	
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400-5	1010400-[illegible]	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2012667	2012667	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
	2012699	2012699	1013009	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2012719	2012719	1011960-001	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS	
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS	
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL	
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL	
		1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY	
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10	
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG	
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004733	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003130	1	AGC TOE PLATE	
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
												1003189-011	1003189	1	AGC END CONNECTOR ASSY	
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY	
												1003493-011	1003184	1	MEMORY TRAY B ASSY	
												1003488-011	1003187	1	LOGIC TRAY A ASSY	
	1003700-011	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-111	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP's	206,225, 232, 234, 240, 243,246, 265, 266, 267, 268,269, 270, 180,169, 351, 75, 209, 290, 429, 407, 441, 438, 418, 463	234,180,225,240, 243,246,267,270 265,295,175,211, 266,268,269,219, 266,232,169,354, 209,290,429,407, 348,335,438,441, 418,463,427	171,160,234,180,265, 267,270,206,211,219 225,240,243,246 [illegible] 169,175, [illegible] 68, [illegible] 347,209,232,354,290 123,429,407,441,438 348,444, 327 418,446,427,463	234, 225,123,180, 252,295,290,337	169,180, 123,232,234,240,243, 246,252,265,290,295, 337,267.	171,234,[illegible],216,240, 225,267,268,243, 266,269,270,412, 265, 175, 232, 354,169,290 123,337,412	25,130,137,175, 177,180,190,206, 232,234,246,251, 266,290,425,426	25,83,84,130,137, 160,165,169,175, 177,180,190,206, 211,219,232,234, 243,250,265,277 290,3[illegible]7,354,407, 426,429,438,441, 444,463,456	2,20,25,63,96, 109,116,130,159, 160,169,177,180, 206,208,223,234 290,328,332,407, 426	2, TD203, 234, 224	2, CO17	2, 9, 234	25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP's	0474, 427	0474	0456, 0469, 0474	174,211,209,232, 202, 206	0456 270,354 174,202,206,209,211, 407,427,269,427 327	174 202,209,407		0474	327	130 175	234					
CONFIGURATION DASH NO.	-1[illegible]1	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

ND 1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SP
DIMENSIONS ARE IN IN
CAPACITOR VALUES ARE
RESISTOR VALUES ARE
TOLERANCES ON
FRACTIONS DECIMAL
± — ± —
DO NOT SCALE THIS DR

MATERIAL

	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-[illegible]	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																		97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2012667	2012667	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2012699	2012699	1013009	2011786	2011786	2011786	1011786-001	1013009	1013009	1011785-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	1011960-001	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
		1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-10[illegible]	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007255-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007456-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-01	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003130	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003189-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-011	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-61	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-121	1003770-1 1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
ORPORATED ECP'S	205, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 351, 75, 209, 290, 429, 407, 441, 438, 418, 463	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463, 427	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, 252, 295, 169, 175, 166, 168, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267. 0456	171, 234, 206, 216, 240, 225, 267, 268, 243, 266, 269, 270, 412, 265, 175, 232, 354, 169, 290, 123, 337, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 3[illegible]7, 354, 407, 426, 429, 438, 441, 444, 463, 456 0474	2, 20, 25, 63, 96, 103, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, 234, 224	2, CO17	2, 9, 234	25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
TSTANDING ECP'S	0474, 427	0474	0456, 0469 0474	174, 211, 209, 232, 202, 206	270, 354 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174 202, 209, 407			327	130 175	234							
IGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 36407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22704			10/7/65	WK
J		REVISED PER TDRR 23203			10/12/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-[illegible]-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-6-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-20-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-29-66	
AT		REVISED PER TDRR 30359	RPS	JL	AUG	
AU		REVISION STATUS CHANGED	GW	JL	AUG	
AV		REVISED PER TDRR 30589	RLW	JL		
AW		REVISED PER TDRR 30698	RLW	JL		
AY		REVISED PER TDRR 30818		RLW		
AZ		REVISED PER TDRR 30984		RLW		
BA		REVISED PER TDRR 31018	JJB	NS	14 SEP	
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP	
BC		REVISED PER TDRR 31361	EC	RLW	10 OCT 66	
BD		REVISED PER TDRR 31468	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC			
BF		REVISED PER TDRR 31571	JC		22 OCT 66	
BG		REVISED PER TDRR 31632	WA		1 NOV	
BH		REVISED PER TDRR 31731	WA	RLW	7 NOV 66	
BJ		REVISION STATUS CHANGED	WA	RLW	8 NOV 66	
BK		REVISED PER TDRR 31930	WA		21 NOV 66	
BL		REVISION STATUS CHANGED	EC		29 NOV 66	
BM		REVISED PER TDRR 32004	EC		30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC	
BP		REVISED PER TDRR 32284	VM		21 DEC 66	
BR		REVISED PER TDRR 82298	VM		21 DEC 66	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 50 AND 51 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones Sept 13 1965
CHECKED 13 Sept 65
APPROVED
APPROVED D. HOAG
APPROVED MIT 15 Sept
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

1014999 BR

2/1014999

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	5
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	5
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	5
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	5
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	5
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	5
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	5
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		4
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		4
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		4
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		4
	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04 LL6			NAS1352C04LL6		NAS 1352C04 LL6						30	SCREW, CAP SOC HD		4
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		4
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		4
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		4
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		4
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		4
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, C·DU	SEE NOTE 4	4
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	4
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	5
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		6
								1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	5
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	5
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	5
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	5
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	5
							1026011 REV. A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	5
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	5
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	5
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	5
							1026035 REV -	1026057 REV. B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	5
							1026047 REV -							1	ACE-G & N 132-OPT D E-MEMORY	SEE NOTE 12	5
							1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	5
							1026051 REV -	1026061 REV -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	5
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	5
								1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	5
								1026062 REV -						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	5
								1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	5
	1026138 REV -																
	1026117 REV -													-1	PIPA SCALE FACTOR TEST	SEE NOTE 10	5
	1026139 REV -	*1026100 REV B*	1026044 REV -											1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	5
	1026119 REV -		1026046 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	5
								1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	5
									1026019 REV -					1	K START CONTROL MISSION PPOFILE	SEE NOTE 10	5
			1026045 REV -				1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	5
							1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	5
	1026115 REV A		1026041 REV -				1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	5
	1026117 REV -		1026043 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	5
	1026116 REV A		1026042 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	5
	1026118 REV -						1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	5
							1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	5
									1008268					1	WIRE HARNESS G	SEE NOTE 9	
							2018898							1	WIRING HARNESS		
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
							1010705 8							1	CLAMP LOOP		
							1010705 - 6							1	CLAMP LOOP		
							1010705 - 5							1	CLAMP LOOP		
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-00	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQU CC
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ
RESISTOR VALUES ARE IN OH
TOLERANCES ON
FRACTIONS DECIMALS
± — ± — ±
DO NOT SCALE THIS DRAWING

MATERIAL

1/1014999

REVISIONS C6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22204			10/1/65	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			[illegible]	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12 28 65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	MGM
AH		REVISED PER TDRR 27933	"		4 13-66	MGM
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	MGM
AM		REVISED PER TDRR 28867	"		5-24-66	MGM
AN		REVISED PER TDRR 29164	"		5-31-66	MGM
AP		REVISED PER TDRR 29188	"		6-9-66	MGM
AR		REVISED PER TDRR 29362	"		6-13-66	MGM
AS		REVISED PER TDRR 29716	"		6 29 66	MGM
AT		REVISION STATUS CHANGED	RPS	JI	9 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30[illegible]	RLW	JI	[illegible] AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921	[illegible]	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	[illegible]	[illegible]	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	[illegible]	22 OCT 66	
BF		REVISION STATUS CHANGED	JC	[illegible]	22 OCT 66	
BG		REVISED PER. TDRR 31632	WA	[illegible]	1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	9 NOV 66	
BK		REVISED PER TDRR 31930	WA	EGS	21 NOV 66	
BL		REVISED PER TDRR 32002	EC	EGS	23 NOV 66	
BM		REVISION STATUS	EC	EGS	30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	
BP		REVISED PER TDRR 32284	VM	EGS	21 DEC 66	
BR		REVISION STATUS CHANGED	VM	EGS	21 DEC 66	

									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, C·DU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
								1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV. B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C	1026065 REV-						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -	1026061 REV -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
								1026059 REV-						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
								1026062 REV-						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
								1026063 REV-						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
																		129
	1026138 REV-													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
	1026117 REV-													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
	1026139 REV-	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8								CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 - 5							1	CLAMP LOOP			11
RATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
IN SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED A J [illegible]
APPROVED
APPROVED D HOA
APPROVED MIT W [illegible]
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

2/1014999

							1010705 - 4							1	CLAMP LOOP	
							1010400 - 9							1	CLAMP, HINGED LOOP	
							1010400 - 4							2	CLAMP, HINGED LOOP	
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP	
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY	
	2011788	2011788	2012691	2011788	2011788	2011788	1011786	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2012667	2012667	2011734	2011734	2011734	2011734	1011734 - 001	1011734 - 001	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 - 000	1	SCT PRISM HOUSING ASSY	
	2012699	2012699	1013009	2011786	2011786	2011786	1011786 - 001	1013009	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY	
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2012719	2012719	1011960 - 001	2011960	2011960	2011950	1011960 - 001	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY	
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS	
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS	
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950 - 191	1899950 - 211	1899950 - 291	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 251	1899950 - 271	1899950 - 261	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP	
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP	
				1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP	
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP	
				1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP	
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606 - 051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G&N PANEL	
	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G&N PANEL	
		1021373 - 041	1021373 - 031				1021373 - 011	1021373 - 021	1021373 - 011					1	APTPS	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY	
	1015064 - 021	1015064 - 021	1015064 - 031	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY	
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY	
	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10	
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG	
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576 - 021	1007576 - 021	1007576 - 031	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573 - 031	1007 73 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570 - 021	1007570 - 021	1007570 - 031	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY	
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY	
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY	
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700 - 051	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4
	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY	
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	2	WASHER, LOCK	
	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT	
	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD	
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670 - 041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706 - 051	1003706 - 051	1003706 - 051	1003706 - 031	1003706 - 031	1003577 - 021	1003570 - 011	1003706 - 051	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT	
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC	
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX	
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003180	1	AGC TOE PLATE	
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC	
												1003489 - 011	1003189	1	AGC END CONNECTOR ASSY	
												1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY	
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY	
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY	
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 041	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 203, 290, 429, 407, 441, 438, 418, 463	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463, 427	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, 252, 295, 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 412, 285, 175, 232, 354, 169, 290, 123, 337, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463, 456	2, 20, 25, 63, 96, 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, 234, 224	2, CO17	2, 9, 234	25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP's	0474, 427	0474	0456, 0469, 0474	174, 24, 209, 232, 202, 206	0456 270, 354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407		0474	327	130, 175	234					
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 180 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THE INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

		UNLESS OTHERWISE SPE
		DIMENSIONS ARE IN INCH
		CAPACITOR VALUES ARE
		RESISTOR VALUES ARE
		TOLERANCES ON
		FRACTIONS DECIMALS
		± — ± —
		DO NOT SCALE THIS DR
ND 1000000		MATERIAL
NEXT ASSY	USED ON	
APPLICATION		

1/1014999

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
							1010705 - 4							1	CLAMP LOOP	
							1010400 - 9							1	CLAMP, HINGED LOOP	
							1010400 - 4							2	CLAMP, HINGED LOOP	
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKEP X & Y ASSY	
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2012667	2012667	2011734	2011734	2011734	2011734	1011734 - 001	1011734-001	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 -000	1	SCT PRISM HOUSING ASSY	
	2012699	2012699	1013009	2011786	2011786	2011786	1011786 - 001	1013009	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 -000	1	SXT MIRROR HOUSING ASSY	
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2012719	2012719	1011960-001	2011960	2011960	2011960	1011960 - 001	1011960-001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY	
	1011625 - 39 (5)	1011625 - 39 (5)	1011625-39 (5)	1011625-39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
	1899994 - 011	1899994 -011	1899994 - 011	1899994 -011	1899994 - 011	1899994 -011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS	
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950 - 191	1899950 - 211	1899950 - 291	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 251	1899950 - 271	1899950 - 261	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP	
	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP	
				1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP	
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400 - 2	1010400 - 2	1010400 - 2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP	
				1010400 - 1	1010400 - 1	1010400 - 1				1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP	
	1015086 - 011	1015086 - 011	1015086 - 011	1015086 - 031	1015086 - 000	1015086 - 021	1015056 - 021	1015056 - 031	1014606 - 041	1014606 - 051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764 - 021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL	
	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL	
		1021373 - 041	1021373 - 031				1021373 - 011	1021373 - 021	1021373 - 011					1	APTPS	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY	
	1015064 - 021	1015064 - 021	1015064 - 031	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY	
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY	
	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10	
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG	
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576 - 021	1007576 - 021	1007576 - 031	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4	
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570 - 021	1007570 - 021	1007570 - 031	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY	
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY	
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY	
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE
	1001500 - 091	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700 - 0 1	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4
	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY	
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337 -80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337 -80	MS 35337 -80	MS 35337 - 80	2	WASHER, LOCK	
	MS 15795 - 807 (4)	MS 15795-807 (4)	MS 15795 - 807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795 -807 (4)	MS 15795 -807 (4)	MS 15795 - 807 (4)	MS 15795 -807 (4)	MS 15795 - 807	MS 15795 -807	MS 15795-807	MS 15795 -807	2	WASHER, FLAT	
	MS 16995 - 26 (4)	MS 16995-26 (4)	MS 16995 - 26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 -26	MS 16995 -26	2	SCREW, SOC HD	
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706 - 051	1003706 - 051	1003706 - 051	1003706 - 031	1003706 - 031	1003577 - 021	1003570 - 011	1003706 - 051	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795 - 808	MS 15795 - 808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795 -808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT	
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC	
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX	
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003180	1	AGC TOE PLATE	
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC	
												1003489 - 011	1003189	1	AGC END CONNECTOR ASSY	
												1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY	
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY	
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY	
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 041	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP's	206,225, 232, 234, 240, 243,246, 265, 266, 267, 268,269, 270, 180,169, 354,175, 209, 290, 429, 407, 441, 438, 418, 463	234,180,225,240, 243,246,267,270, 265,295,175,211, 266,268,269,219, 206,232 169,354, 209,290,429,407, 348,335,438,441, 418,463,427	171,160,234,180,265, 267,270,206,211,219 225,240,243,246 252,295 169,175,266,268,269, 347,209,232,354,230 123,429,407,441,438 348,444, 327 418,446,427,463	234, 225,123,180, 252,295,290,337	169,180, 123,232,234,240,243, 246,252,265,290,295, 337,267.	171,234,206,246,240, 265,225,267,268,243, 266,269,270,412, 285, 175, 232, 354, 169,290 123,337,412	25,130,137,175, 177,180,190,206, 232,234,246,251, 266,290,425,426	25,83,84,130,137, 160,165,169,175, 177,180,190,206, 211,219,232,234, 243,250,265,277 290,327,354,407, 426,429,438,441, 444,463,456	2,20,25,63,96, 109 116,130,159, 160,169,177,180, 206,208,223,234 290,328,332,407, 426	2, TD203, 234,224	2, CO 17	2,9, 234	25,234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP's	0474, 427	0474	0456, 0469, 0474	174,248,209,232, 202, 206	0456 270,354, 174,202,206,209,211, 407,427,269,427 327	174 202,209,407,		0474	327	130, 175	234					
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 180 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE
RESISTOR VALUES ARE
TOLERANCES ON
FRACTIONS DECIMALS
± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

ND 1000000

NEXT ASSY | USED ON
APPLICATION

1/1014999

							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																		97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	[illegible]	2012667	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	[illegible]	2012699	1013009	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	[illegible]	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	[illegible]	2012719	1011960-001	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-191	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL		50	65
		1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011	.	POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-091	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
RPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463, 427	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, 252, 295, 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 412, 285, 175, 232, 354, 169, 290, 123, 337, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463, 456	2, 20, 25, 63, 96, 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, 234, 224	2, CO17	2, 9, 234	25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
STANDING ECP'S	0474 427	0474	0456, 0469, 0474	174, 211, 209, 232, 202, 206	0456, 270, 354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407		0474	327	130, 175	234							
GURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 27904			10/4/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23508			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WSM
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-26-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6-2[illegible]-66	
AT		REVISED PER TDRR 30359	RPS		[illegible]	
AU		REVISION STATUS CHANGED	[illegible]		[illegible]	
AV		REVISED PER TDRR 30599			[illegible]	
AW		REVISED PER TDRR 30692			[illegible]	
AX		[illegible]				
AZ		REVISED PER TDRR 3[illegible]921			[illegible]	
BA		REVISED PER TDRR 31018	JJB	NS	[illegible]	
BB		REVISED PER TDRR 31248	ME		[illegible]	
BC		REVISED PER TDRR 31361	EC		[illegible]	
BD		REVISED PER TDRR 31468	EC		[illegible]	
BE		REVISED PER TDRR 31523	JC		[illegible] OCT 66	
BF		REVISED PER TDRR 31571	JC		20 OCT 66	
BG		REVISED PER TDRR 31632	WA		1 NOV 66	
BH		REVISED PER TDRR 31731	WA		7 NOV 66	
BJ		REVISION STATUS CHANGED	WA		8 NOV 66	
BK		REVISED PER TDRR 31930	WA		21 NOV 66	
BL		REVISION STATUS CHANGED	EC		[illegible] NOV 66	
BM		REVISED PER TDRR 32004	EC		30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	
BP		REVISED PER TDRR 32[illegible]94	VM		21 DEC	
BR		REVISED PER TDRR 32298	VM		21 DEC 66	
BS		REVISION STATUS CHANGED	VM		21 DEC 66	

REVISIONS TDR 206407

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 50 AND 51 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT
APPROVED MSC

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	1014999

DATE SCALE — SHEET 1 OF 2

27 1014999

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24
FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION

TABLE I (SEE NOTE 4)

									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)	
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)	
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE	
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE	
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL	
	NAS 1352 C04 LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD	
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR	
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)	
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY	
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY	
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY	
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY	
								1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 12
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12
							1026011 REV. A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12
							1026035 REV -	1026057 REV. B						1	G & N TO SC POLARITY TEST	SEE NOTE 12
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12
							1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12
							1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12
								1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12
								1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12
								1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12
								1026060 REV B								
	1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10
	1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10
	1026139 REV -	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10
	1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10
	1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10
									1008268					1	WIRE HARNESS G	SEE NOTE 9
							2018898							1	WIRING HARNESS	
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET	
							1010705 8							1	CLAMP LOOP	
							1010705 - 6							1	CLAMP LOOP	
							1010705 - 5							1	CLAMP LOOP	
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

		UNLESS OTHERWISE DIMENSIONS ARE IN CAPACITOR VALUES RESISTOR VALUES TOLERANCES ON FRACTIONS ± — ± DO NOT SCALE THIS
NEXT ASSY	USED ON	MATERIAL
APPLICATION		

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)	
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)	
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE	
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE	
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL	
	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04 LL6			NAS 1352 C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD	
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR	
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)	
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY	
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY	
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY	
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY	
								1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12
							1026011 REV. A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12
							1026035 REV -	1026057 REV. B						1	G & N TO SC POLARITY TEST	SEE NOTE 12
							1026047 REV -							1	ACE - G & N 132 - OPT D E-MEMORY	SEE NOTE 12
							1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12
							1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12
								1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12
								1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12
								1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12
								1026060 REV B								
	1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10
	1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10
	1026139 REV -	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10
	1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10
	1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10
									1008268					1	WIRE HARNESS "G"	SEE NOTE 9
							2018898							1	WIRING HARNESS	
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET	
							1010705 8							1	CLAMP LOOP	
							1010705 -6							1	CLAMP LOOP	
							1010705 -5							1	CLAMP LOOP	

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE
DIMENSIONS ARE IN
CAPACITOR VALUES ARE
RESISTOR VALUES ARE
TOLERANCES ON
FRACTIONS DECIMALS
± — ±
DO NOT SCALE THIS
MATERIAL

REVISIONS 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	W.K.
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12 28 65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6 29 66	
AT		REVISION STATUS CHANGED	RPG	JI	3 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30892	RLW	JI	31 AUG 66	
AY		REVISED PER TDRR 30818	T.N.	RLW	SEPT 66	
AZ		REVISED PER TDRR 30921	J.W.	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC		22 OCT 66	
BF		REVISION STATUS CHANGED	JC		22 OCT 66	
BG		REVISED PER. TDRR 31632	WA		1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	9 NOV 66	
BK		REVISED PER TDRR 31930	WA		21 NOV 66	
BL		REVISED PER TDRR 32002	EC		29 NOV 66	
BM		REVISION STATUS	EC		30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	
BP		REVISED PER TDRR 32284	VM		21 DEC 66	
BR		REVISION STATUS CHANGED	VM		21 DEC 66	
BS		REVISED PER TDRR 32358	VM		21 DEC 66	

RATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
N SYSTEMS.	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSERT ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
								1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G & N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
								1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
								1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
								1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
								1026060 REV B										129
	1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
	1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
	1026139 REV -	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026015 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8							1	CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC A. C. METZGER

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

271014999

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
						1010705-4							1	CLAMP LOOP	
						1010400-9							1	CLAMP, HINGED LOOP	
						1010400-4							2	CLAMP, HINGED LOOP	
						2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
						2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
													1	FLIGHT-DATA BOOK	
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD	
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP	
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY	
2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
						1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
2012667	2012667	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY	
2012699	2012699	1013009	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY	
2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
2012719	2012719	1011960-001	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY	
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD	
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS	
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS	
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
1899950-321	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
			1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP	
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP	
			1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP	
			1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP	
1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5
			1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP	
			1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP	
1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G & N PANEL	
2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G & N PANEL	
	1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS	
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY	
1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY	
1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY	
1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10	
1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9	
1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8	
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG	
1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7	
1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6	
1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5	
1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4	
1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3	
1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2	
1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1	
1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE
			AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD	
			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY	
			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY	
			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY	
			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4
			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE
1001500-111	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
						1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4
1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY	
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK	
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT	
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD	
1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE	
1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT	
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC	
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC	
1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX	
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX	
												1003457	1	AGC CONN COVER PLATE	
												1003180	1	AGC TOE PLATE	
											1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC	
											AN 104608	AN 104608	4	SCREW, HEX HD	
											AN 104606	AN 104606	4	SCREW, HEX HD	
											1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
											1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC	
											1003489-011	1003189	1	AGC END CONNECTOR ASSY	
											1003197-011	1003197	1	G & N HARNESS TRAY ASSY	
											1003493-011	1003184	1	MEMORY TRAY B ASSY	
											1003488-011	1003187	1	LOGIC TRAY A ASSY	
1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-1.1	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE

	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
INCORPORATED ECP's	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463, 427, 500	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463, 427	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, [illegible] 295, 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267,	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 412, 285, 175, 232, 354, 169, 290, 123, 337, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463, 456	2, 20, 25, 63, 96, 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, 234, 224	2, CO17	2, 9, 234	25, 234
OUTSTANDING ECP's	0474	0474	0456, 0469, 0474	174, 211, 209, 232, 202, 206	0456 270, 354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407,		0474	327	130, 175	234		
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

ND 1000000
NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN
TOLERANCES ON
FRACTIONS DECIMALS
± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

1/1014999

CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																		97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2012667	2012667	2011734	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2012699	2012699	1013009	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	1011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	1011960-001	2011960	2011960	2011950	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-321	1899950-211	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
		1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-111	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16993-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-61	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
CORPORATED ECP'S	206225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463, 427, 500	234, 180, 225, 240, 243, 246, 267, 270, 295, 295, 175, 211, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463, 427	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, 252, 295, 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 412, 285, 175, 232, 354, 169, 290, 123, 37, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463, 456	2, 20, 25, 63, 96, 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, 234, 224	2, CO17	2, 9, 234	25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
TSTANDING ECP'S	0474	0474	0456, 0469, 0474	174, 211, 209, 232, 202, 206	0456 270, 354, 174, 202, 206, 209, 211, 407, 427, 269, 427 327	174 202, 209, 407,		0474	327	130, 175	234							
IGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS T [illegible]

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV C WITH CHANGE PER TDRR 22704			10/1/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WMW
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28 06	"		4-2 66	WK
AK		REVISED PER TDRR 28 74	"		5-3-66	WK
AL		REVISED PER TDRR 28 32	"		5-12-66	
AM		REVISED PER TDRR 28 57	"		5-24-66	
AN		REVISED PER TDRR 29 4	"		5-31-66	
AP		REVISED PER TDRR 29 8	"		6-9-66	
AR		REVISED PER TDRR 29 2	"		6-13-66	
AS		REVISED PER TDRR 29 5			6-29-66	
AT		REVISED PER TDRR 30 39	RFS	JI	7 AUG 66	
AU		REVISION STATUS CHANGED	G.	JI	7 AUG 66	
AV		REVISED PER TDRR 30 3		JI	8 AUG 66	
AW		REVISED PER TDRR 30 3		JI	AUG 66	
AY		REVISED PER TDRR 3 8		RLW	SEPT. 66	
AZ		REVISED PER TDRR 3		RLW	SEP 66	
BA		REVISED PER TDRR 3	J.B	NS	SEP 66	
BB		REVISED PER TDRR 3 4	ME	RLW	2 SEP 66	
BC		REVISED PER TDRR 3	EC	RLW	OCT 66	
BD		REVISED PER TDRR 3 9	EC	RLW	OCT 66	
BE		REVISED PER TDRR 3 5 3	JC	RLW	2 OCT 66	
BF		REVISED PER TDRR 3 57	JC		2 OCT 66	
BG		REVISED PER TDRR 3	W.A.		1 NOV. 66	
BH		REVISED PER TDRR 317 1	WA	RLW	7 NOV 66	
BJ		REVISION STATUS CHANGED	WA		8 NOV 66	
BK		REVISED PER TDRR 31 30	WA		21 NOV 66	
BL		REVISION STATUS CHANGED	EC		29 NOV 66	
BM		REVISED PER TDRR 32004	EC		30 NOV 66	
BN		REVISED PER TDRR 32167	GK		10 DEC 66	
BP		REVISED PER TDRR 32287	VM		21 DEC 66	
BR		REVISED PER TDRR 32298	VM		21 DEC 66	
BS		REVISION STATUS CHANGED	VM		21 DEC 66	
BT		REVISED PER TDRR 32595	LL		11 JAN 67	

Ⓗ REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones — SEPT 15 1965
CHECKED — 15 Sept 65
APPROVED — 16 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT McMullen — 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET 1 OF 2

2/1014999

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)	
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)	
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE	
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE	
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL	
	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04LL6			NAS 1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD	
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR	
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)	
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY	
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY	
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY	
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY	
								1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 12
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12
							1026014 REV. -	1026055 REV A						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12
							1026015 REV. B	1026053 REV -						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12
							1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12
							1026011 REV. A	1026054 REV -						1	G&N POLARITY TEST	SEE NOTE 12
							1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12
							1026035 REV -	1026057 REV. B						1	G&N TO SC POLARITY TEST	SEE NOTE 12
							1026047 REV -							1	ACE-G&N 132-OPT D E-MEMORY	SEE NOTE 12
							1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12
							1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12
								1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12
								1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12
								1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12
								1026060 REV B								
	1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10
	1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10
	1026139 REV-A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10
	1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10
	1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10
									1008268					1	WIRE HARNESS "G"	SEE NOTE 9
							2018898							1	WIRING HARNESS	
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET	
							1010705 8							1	CLAMP LOOP	
							1010705 - 6							1	CLAMP LOOP	
							1010705 - 5							1	CLAMP LOOP	
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

UNLESS OTHERWISE SPECI
DIMENSIONS ARE IN INCHE
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN
TOLERANCES ON
FRACTIONS DECIMALS
± ±
DO NOT SCALE THIS DRAW
MATERIAL

NEXT ASSY	USED ON
APPLICATION	

1710014999

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12 28 65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	
AH		REVISED PER TDRR 27933	"		4-13-66	
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	
AM		REVISED PER TDRR 28867	"		5-24-66	
AN		REVISED PER TDRR 29164	"		5-31-66	
AP		REVISED PER TDRR 29188	"		6-9-66	
AR		REVISED PER TDRR 29362	"		6-13-66	
AS		REVISED PER TDRR 29716	"		6 29 66	
AT		REVISION STATUS CHANGED	RPS	JI	AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	19 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	T.A.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30921		RLW	12 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC		22 OCT 66	
BF		REVISION STATUS CHANGED	JC		22 OCT 66	
BG		REVISED PER. TDRR 31632	WA		1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	9 NOV 66	
BK		REVISED PER TDRR 31930	WA		21 NOV 66	
BL		REVISED PER TDRR 32002	EC		29 NOV 66	
BM		REVISION STATUS	EC		30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	
BP		REVISED PER TDRR 32284	VM		21 DEC 66	
BR		REVISION STATUS CHANGED	VM		21 DEC 66	
BS		REVISED PER TDRR 32358	VM		21 DEC	
BT		REVISED PER TDRR 32595	LL		11 JAN. 67	

GURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
	1017577	1017577	1017577			1017577		1017577										163
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (BOT)		40	162
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1017575	1017575	1017575			1017575		1017575						5	SCREW, CAP SOC HD CAPTIVE		40	159
	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04LL6			NAS 1352C04LL6		NAS 1352C04LL6						7	SCREW, CAP SOC HD, SPECIAL		40	158
	1021305	1021305	1021305			1021305		1021305						30	SCREW, CAP SOC HD		40	157
	1021299	1021299	1021299			1021299		1021299						10	SEAL, CONNECTOR		40	156
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	PANEL (INSEP. ASSY)		40	155
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								1	FRAME MACHINING ASSY		40	154
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						2	CDU ASSEMBLY		40	153
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						3	CDU ASSEMBLY		40	152
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
							1021106 - 021							1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
	1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 051	1021255 - 031					1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
														1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
								1026064 REV -										147
							1026034 REV. C	1026056 REV A						1	G&N, SCS INTERFACE TEST	SEE NOTE 12	55	146
							1026014 REV. -	1026055 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026015 REV. B	1026053 REV -						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026012 REV. B	1026052 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
							1026011 REV. A	1026054 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026024 REV -	1026049 REV -						1	G&N POLARITY TEST	SEE NOTE 12	55	141
							1026022 REV -	1026050 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026021 REV -							1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026035 REV -	1026057 REV. B						1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026047 REV -							1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026048 REV C	1026065 REV -						1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026051 REV -	1026061 REV A						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
								1026058 REV -						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026059 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
								1026062 REV A						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
								1026063 REV -						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
								1026060 REV B						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
	1026138 REV -																	129
	1026117 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
	1026139 REV-A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
	1026119 REV -		1026046 REV -					1026020 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
									1026019 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
							1026013 REV C							1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
							1026009 REV -	1026038 REV -	1026010 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026118 REV -						1026001 REV -		1026006 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
														1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS 'G'	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 - 8							1	CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

2/1014999

							1010705 - 4							1	CLAMP LOOP	
							1010400 - 9							1	CLAMP, HINGED LOOP	
							1010400 - 4							2	CLAMP, HINGED LOOP	
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY	
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5
														1	FLIGHT-DATA BOOK	
	1000110-307	1000110-307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD	
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT	
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE	
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C	
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C	
	1010400- 5	1010400-5	1010400 - 5	1010400 - 5	1010400 - 5	1010400 -7	1010400 - 5	1010400 - 5	1010400 - 5	1010400 -7	1010400 - 7			1	CLAMP, HINGED LOOP	
	1007585-011	1007585-011	1007585 -011	1007585 -011	1007585 -011	1007585 -011								1	TRACKER X & Y ASSY	
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6
	2012667	2012667	2012667	2011734	2011734	2011734	1011734 - 001	1011734-001	1011734 - 001	1011734 - 000	1011734 - 000	1011734 - 000	1011734 -000	1	SCT PRISM HOUSING ASSY	
	2012699	2012699	2012699	2011786	2011786	2011786	1011786 - 001	1013009	1013009	1011786 - 000	1011786 - 000	1011786 - 000	1011786 -000	1	SXT MIRROR HOUSING ASSY	
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY	
	2012719	2012719	2012719	2011960	2011960	2011960	1011960 - 001	1011960-001	1011960 - 001	1011960 -000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY	
	1011625 - 39 (5)	1011625 - 39 (5)	1011625-39 (5)	1011625-39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP	
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS	
	1899994 - 011	1899994 -011	1899994 -011	1899994 -011	1899994 - 011	1899994 -011	1899994 -011	1899994 - 011	1899994 - 011	1899994 -011	1899994 -011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY	
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT	
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 001	1010728 -001	1010728 - 001	1010728 -001	1010728 -001	1010728 -001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD	
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY	
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR	
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING	
	1010828	1010828	1010828	1010828	1010828	1010828	1010826	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT	
	1899997 - 002	1899997 - 002	1899997 -002	1899997 - 002	1899997 - 002	1899997 -002	1899997 -002	1899997 - 002	1899997 -002	1899997 -002	1899997 - 002	1899997 -002	1899954 -002	1	SEAL, SXT BELLOWS	
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 -001	1899954 -001	1	SEAL, SCT, BELLOWS	
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD	
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY	
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY	
	1899950 -191	1899950-321	1899950 - 291	1899950 - 081	1899950 - 071	1899950 -071	1899950 -251	1899950 - 271	1899950 - 261	1899950 - 021	1899950 - 021	1899950 -021	1899950 -011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)	
	1010705 - 6	1010705 -6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP	
	1010705 - 8 (2)	1010705 -8 (2)	1010705 - 8 (2)	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8 (2)	1010705 -8 (2)	1010705 -8 (2)	1010705 - 8	1010705 -8	1010705 -8	1010705 - 8	1	CLAMP LOOP	
				1010400 - 8	1010400 - 8	1010400 - 8				1010400 - 8	1010400 -8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP	
				1010400 - 7	1010400 - 7	1010400 - 7				1010400 - 7	1010400 -7	1010400 -7	1010400 -7	1	CLAMP, HINGED LOOP	
	1010400 (10)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 (8)	1010400 (10)	1010400 (10)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5
				1010400 - 2	1010400 - 2	1010400 -2				1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP	
				1010400 - 1	1010400 - 1	1010400 -1				1010400 -1	1010400 -1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP	
	1015086 -011	1015086 - 011	1015086-011	1015086 - 031	1015086 - 000	1015086-021	1015056-021	1015056 -031	1014606 - 041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4
	2014764 -021	2014764 - 021	2014764 - 021	1023002 - 002	2014764 - 021	2014764 - 021		2014764 - 021						1	LONG HANDLE, G & N PANEL	
	2014764 - 011	2014764 - 011	2014764 - 011	1023002 - 001	2014764 - 011	2014764 - 011		2014764 - 011						1	SHORT HANDLE, G & N PANEL	
		1021373 - 041	1021373 - 031				1021373-011	1021373 - 021	1021373-011					1	APTPS	
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY	
	1014502 - 021	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 021	1014502 - 011	1014502 - 021	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY	
	1015064 - 021	1015064 - 021	1015064 - 031	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY	
	1014628 - 021	1014628 - 021	1014628 - 021	1014628 - 011	1014628 - 021	1014628 - 021	1015095 - 011	1014628 - 021	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY	
	1015065 - 091	1015065 - 091	1015065 - 091	1015065 - 041	1015065 - 091	1015065 - 101	1015065 - 051	1015065 - 081	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY	
	1014664 - 031	1014664 - 031	1014664 - 031	1014664 - 011	1014664 - 021	1014664 - 021	1015053 - 011	1015053 - 021	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED	
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP	
	1007580 - 021	1007580 - 021	1007580 - 021	1007580 - 011	1007580 - 011	1007580 - 021	1007256 - 031	1007256 - 041	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10	
	1007579 - 021	1007579 - 021	1007579 - 021	1007579 - 011	1007579 - 011	1007579 - 021	1007459 - 011	1007459 - 021	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9	
	1007578 - 021	1007578 - 021	1007578 - 021	1007578 - 011	1007578 - 011	1007578 - 021	1007458 - 011	1007458 - 021	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8	
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG	
	1007577 - 031	1007577 - 031	1007577 - 031	1007577 - 011	1007577 - 011	1007577 - 031	1007577 - 021	1007577 - 041	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7	
	1007576 - 021	1007576 - 021	1007576 - 031	1007576 - 011	1007576 - 011	1007576 - 021	1007456 - 021	1007456 - 031	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6	
	1007575 - 031	1007575 - 031	1007575 - 031	1007575 - 011	1007575 - 011	1007575 - 031	1007575 - 021	1007575 - 041	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5	
	1007574 - 031	1007574 - 031	1007574 - 031	1007574 - 011	1007574 - 011	1007574 - 031	1007574 - 021	1007574 - 041	1021224 - 011	10 7262	1007262	1007154	1007154	1	TRAY 4	
	1007573 - 031	1007573 - 031	1007573 - 031	1007573 - 011	1007573 - 011	1007573 - 031	1007573 - 021	1007573 - 041	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3	
	1007572 - 041	1007572 - 041	1007572 - 041	1007572 - 011	1007572 - 011	1007572 - 041	1007572 - 031	1007572 - 051	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2	
	1007571 - 031	1007571 - 031	1007571 - 031	1007571 - 011	1007571 - 011	1007571 - 031	1007571 - 021	1007571 - 041	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1	
	1007570 - 021	1007570 - 021	1007570 - 031	1007570 - 011	1007570 - 011	1007570 - 021	1007257 - 051	1007257 - 061	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE
				AN 365D - 440	AN 365D - 440		AN 365D - 440		AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD	
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL	
				1015500 - 031	1015500 - 031		1015500 - 061 (3)							2	CDU ASSY	
				1015500 - 021 (3)	1015500 - 021 (3)		1015500 - 021 (2)		1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY	
				1017538 - 021	1017538 - 021		1017538 - 021		1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY	
				1016885 - 021	1016885 - 021		1016885 - 031		1016908 - 021	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4
				1016903 - 031	1016903 - 031		1016903 - 051		1016905 - 031	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE
	1001500 - 111	1001500 - 091	1001500 - 091	1001500 - 021	1001500 - 051	1001500 - 081	1001500 - 041	1001500 - 091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	
	1007700 - 051	1007700 - 051	1007700 - 051				1007700 - 011	1007700 - 041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY	
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER	
	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1004866 - 011	1005707 - 021	1005785 - 011	1005785 - 011	1005785 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4
	1003563 - 051	1003563 - 051	1003563 - 051	1003563 - 031	1003563 - 031	1003563 - 041	1003564 - 021	1003563 - 051	1003564 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY	
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	2	WASHER, LOCK	
	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT	
	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD	
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE	
	1004670 - 041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE	
	1003706 - 051	1003706 - 051	1003706 - 051	1003706 - 031	1003706 - 031	1003577 - 021	1003570 - 011	1003706 - 051	1003570 - 021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR	
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE	
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC	
	MS 15795 - 808	MS 15795 - 808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795 -808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT	
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC	
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC	
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL	
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL	
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE	
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX	
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX	
													1003457	1	AGC CONN COVER PLATE	
													1003180	1	AGC TOE PLATE	
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC	
												AN 104608	AN 104608	4	SCREW, HEX HD	
												AN 104606	AN 104606	4	SCREW, HEX HD	
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE	
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC	
												1003489 - 011	1003189	1	AGC END CONNECTOR ASSY	
												1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY	
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY	
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY	
	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003700 - 051	1003565 - 041	1003565 - 011	1003565 - 011	1003565 - 031	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4
	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 161	1003770 - 171	1003770 - 131	1003770 - 131	1003770 - 111	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE
INCORPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 439, 418, 463, 500	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463, 427	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, 252, 295, 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 146, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267. 0456	171, 234, 206, 246, 240, 265, 225, 264, 268, 243, 266, 269, 270, 412, 285, 175, 232, 354, 169, 290, 123, 337, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 33, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463, 456	2, 20, 25, 63, 96, 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, 234, 224	2, CO 17	2, 9, 234	25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
OUTSTANDING ECP'S	427 0474	0474	0456, 0469, 0474	174, 214, 209, 232, 202, 206	270, 354, 174, 202, 206, 209, 211, 407, 421, 269, 427, 327	174, 202, 209, 407		0474	327	130, 175	234					
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000			
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

ND 1000000

NEXT ASSY | USED ON

APPLICATION

1/1014999

							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																		97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011786	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2012667	2012667	2012667	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2012699	2012699	2012699	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-191	1899950-321	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-6	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
		1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011	.	POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-111	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003565-011	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
														QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
ORPORATED ECP'S	206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463, 500	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 169, 354, 209, 290, 429, 407, 348, 335, 438, 441, 418, 463, 427	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, 252, 295, 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267.	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 412, 285, 175, 232, 354, 169, 290, 123, 337, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463, 456	2, 20, 25, 63, 96, 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, 234, 224	2, CO 17	2, 9, 234	25, 234					
STANDING ECP'S	427 0474	0474	0456, 0469, 0474	174, 211, 209, 232, 202, 206	0456 270, 354, 174, 202, 206, 209, 211, 407, 427, 269, 427, 327	174, 202, 209, 407,		0474	327	130, 175	234							
GURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS [illegible]

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	WK
J		REVISED PER TDRR 23203			[illegible]	WK
K		REVISED PER TDRR 23259			10/14/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R	Ⓐ	REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-13-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	[illegible]
AC		REVISED PER TDRR 26821	"		3-4-66	[illegible]
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	[illegible]
AH		REVISED PER TDRR 27933	"		4-13-66	[illegible]
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	[illegible]
AM		REVISED PER TDRR 28857	"		5-24-66	[illegible]
AN		REVISED PER TDRR 29104	"		5-31-66	[illegible]
AP		REVISED PER TDRR 29188	"		6-9-66	[illegible]
AR		REVISED PER TDRR 29362	"		6-13-66	[illegible]
AS		REVISED PER TDRR 29715	"		6-29-66	[illegible]
AT		REVISED PER TDRR 30339	RPS	[illegible]	7 AUG 66	
AU		REVISION STATUS CHANGED	GW	JI	7 AUG 66	
AV		REVISED PER TDRR 30339	RLW	JI	[illegible] AUG 66	
AW		REVISED PER TDRR 30392	RLW	JI	[illegible] AUG 66	
AY		REVISED PER TDRR 30818	TA	RLW	8 SEPT	
AZ		REVISED PER TDRR 30924	[illegible]	RLW	13 SEP 66	
BA		REVISED PER TDRR 31118	JJB	NS	14 SEP 66	
BB		REVISED PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISED PER TDRR 31261	EC	RLW	10 OCT 66	
BD		REVISED PER TDRR 31418	EC	RLW	[illegible] 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT 66	
BF		REVISED PER TDRR 31571	JC	[illegible]	22 OCT 66	
BG		REVISED PER TDRR 31532	W.A.	[illegible]	1 NOV 66	
BH		REVISED PER TDRR 31741	WA	RLW	7 NOV 66	
BJ		REVISION STATUS CHANGED	WA	RLW	8 NOV 66	
BK		REVISED PER TDRR 31930	WA	[illegible]	21 NOV 66	
BL		REVISION STATUS CHANGED	EC	[illegible]	29 NOV 66	
BM		REVISED PER TDRR 32004	EC	[illegible]	30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	
BP		REVISED PER TDRR 32284	VM	[illegible]	21 DEC 66	
BR		REVISED PER TDRR 32298	VM	[illegible]	21 DEC 66	
BS		REVISION STATUS CHANGED	VM	[illegible]	21 DEC 66	
BT		REVISED PER TDRR 32595	LL	[illegible]	11 JAN 67	
BU		REVISED PER TDRR 32745	ME	[illegible]	23 JAN 67	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 50 AND 51 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING

MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	1014999

SCALE
SHEET 1 OF 2

27 1014999

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24
FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION

TABLE I (SEE NOTE 4)

									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 1	55
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 1	55
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 1	55
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 1	55
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 1	55
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 1	55
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 1	55
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40
	1021289 - 4	1021289 - 4	1021289 - 4			102 289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40
	NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6			NAS 1352 C04 LL6		NAS 1352 C04 LL6						30	SCREW, CAP SOC HD		40
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304 - 021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55
	1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 051	1021255 - 031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62
								1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 1	55
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55
							1026014 REV. -	1026055 REV A						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55
							1026015 REV. B	1026053 REV -						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55
		1026072 REV-					1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55
							1026011 REV. A	1026054 REV -						1	G&N POLARITY TEST	SEE NOTE 12	55
		1026069 REV-					1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 1	55
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 1	55
							1026035 REV -	1026057 REV. B						1	G&N TO SC POLARITY TEST	SEE NOTE 1	55
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 1	55
							1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 1	55
							1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 1	55
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 1	55
								1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 1	55
								1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 1	55
								1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 1	55
								1026060 REV B									
	1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 1	55
	1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 1	55
	1026139 REV-A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55
	1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55
	1026117 REV -		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55
	1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55
									1008268					1	WIRE HARNESS "G"	SEE NOTE 9	
							2018898							1	WIRING HARNESS		
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET		
							1010705 8							1	CLAMP LOOP		
							1010705 - 6							1	CLAMP LOOP		
							1010705 - 5							1	CLAMP LOOP		
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
G&N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5				

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

1/1014999

REVISIONS 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12 28 65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	MGM
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-[illegible]	MGM
AH		REVISED PER TDRR 27933	"		4-13-66	MGM
AJ		REVISED PER TDRR 28206	"		4-[illegible]	WK
AK		REVISED PER TDRR 28374	"		5-3-[illegible]	WK
AL		REVISED PER TDRR 28732	"		5-12-66	MGM
AM		REVISED PER TDRR 28867	"		5-24-66	MGM
AN		REVISED PER TDRR 29164	"		5-31-66	MGM
AP		REVISED PER TDRR 29188	"		6-9-66	MGM
AR		REVISED PER TDRR 29362	"		6-13-66	MGM
AS		REVISED PER TDRR 29716	"		6 29 66	MGM
AT		REVISION STATUS CHANGED	RPS	JI	[illegible] AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	17 AUG 66	
AV		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 308[illegible]8	TA.	RLW	6 SEPT 66	
AZ		REVISED PER TDRR 30[illegible]21	B.W.	RLW	13 SEPT 66	
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC		22 OCT 66	
BF		REVISION STATUS CHANGED	JC		22 OCT 66	
BG		REVISED PER TDRR 31632	WA		1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	9 NOV 66	
BK		REVISED PER TDRR 31930	WA	EB	21 NOV 66	
BL		REVISED PER TDRR 32002	EC	EB	29 NOV 66	
BM		REVISION STATUS	EC	EB	30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	
BP		REVISED PER TDRR 32284	VM	EB	21 DEC 66	
BR		REVISION STATUS CHANGED	VM	EB	21 DEC 66	
BS		REVISED PER TDRR 32358	VM	EB	21 DEC 66	
BT		REVISED PER TDRR 32595	LL		11 JAN. 67	
BU		REVISED PER TDRR 32745	ME	EB	23 JAN 67	

URATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G&N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289-3	1021289 - 3	1021289 - 3			1021289 - 3		1021289-3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289-4	1021289 - 4	1021289 - 4			1021289 - 4		1021289-4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04LL6			NAS 1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303-011						1	FRAME MACHINING ASSY		40	154
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 011	1021304 - 011	1021304 - 011			1021304 - 011		1021304-021						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
								1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 12	55	146
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026055 REV A						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV -						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
		1026072 REV-					1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026054 REV -						1	G&N POLARITY TEST	SEE NOTE 12	55	141
		1026069 REV-					1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV. B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C	1026065 REV-						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
								1026059 REV-						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
								1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
								1026063 REV-						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
								1026060 REV B										129
	1026138 REV-													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
	1026117 REV-													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
	1026139 REV-A	1026100 REVB	1026044 REV-				1026100 REVA	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV-		1026046 REV-					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PPOFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV-				1026016 REV -	1026018 REV-	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV-	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV A		1026041 REV-				1026004 REV -	1026028 REV-	1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV-		1026043 REV-				1026003 REV -	1026026 - REV-	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS 'G'	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8							1	CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED A J Lavigne Oct 5 1965
APPROVED
APPROVED D. HOAG PER J.B.M. WK
APPROVED MIT W.Cuffe 5 Oct
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

27/1014999

														QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																		97
	2011788	2011788	2012691	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2012667	2012667	2012667	2011734	2011734	2011734	1011734-001	1011734-001	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
	2012699	2012699	2012699	2011786	2011786	2011786	1011786-001	1013009	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2012700	2012700	2012700	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-191	1899950-321	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
				1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
				1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
				1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
				1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
				1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
	2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
	1021373-041	1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1023080-011	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG		45	51
	1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
				AN 365D-440	AN 365D-440		AN 365D-440		AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
				1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
				1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
				1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
				1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
				1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
				1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-111	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003700-051	1003565-031	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
RPORATED ECP'S	206,225, 232, 234, 240, 243,246, 265, 266, 267, 268,269, 270, 180,169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463, 500	234,180,225,240, 243,246,267,270, 265,295,175,211, 266,268,269,219, 206,232,169,354, 209,290,429,407, 348,335,438,441, 418,463,427	171, 160,234,180,265, 267,270,206,211,219, 225,240,243,246, 252,295, 169,175, 266, 268, 269, 347,209,232,354,290, 123,429,407,441,438, 348,444, 327, 418,446,427,463	234, 225,123,180, 252,295,290,337	169,180, 123,232,234,240,243, 246,252,265,290,295, 337,267.	171,234,206,246,240, 265,225,267,268,243, 266,269,270,412, 285, 175, 232, 354,169,290, 123,337,412	25,130,137,175, 177,180,190,206, 232,234,246,251, 266,290,425,426	25,83,84,130,137, 160,165,169,175, 177,180,190,206, 211,219,232,234, 243,250,263,277 290,327,354,407, 426,429,438,441, 444,463,456,423	2,20,25,63,96, 109 116,130,159, 160,169,177,180, 206,208,223,234 290,328,332,407, 426	2, TD203, 234,224	2, CO 17	2,9, 234	25,234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
STANDING ECP'S	427, 423, 0474	423, 0474	0456, 0469, 0474, 423	174,241,209,232, 202, 206	0456 270,354, 174,202,206,209,211, 407, 269, 327	174, 202,209,407,		0474	327, 423	130, 175	234							
URATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22784				
J		REVISED PER TDRR 23203				
K		REVISED PER TDRR 23259				
L		REVISED PER TDRR 23502				
M		REVISED PER TDRR 23420	RAJ			
N		REVISED PER TDRR 23926	RAJ			
P		REVISED PER TDRR [illegible]	RAJ			
R		REVISED PER TDRR 24370	RAJ			
S		REVISED PER TDRR 24991	RAJ			
T		REVISED PER TDRR 24674	RAJ			
U		REVISED PER TDRR 24792	RAJ			
V		REVISED PER TDRR 24931	RAJ			
W		REVISED PER TDRR [illegible]				
Y		REVISED PER TDRR [illegible]				
Z		REVISED PER TDRR 25812				
AA		REVISED PER TDRR 26317				
AB		REVISED PER TDRR 26620				
AC		REVISED PER TDRR 2482				
AD		REVISED PER TDRR [illegible]				
AE		REVISED PER TDRR [illegible]				
AF		REVISED PER TDRR [illegible]				
AG		REVISED PER TDRR [illegible]				
AH		REVISED PER TDRR [illegible]				
AJ		REVISED PER TDRR [illegible]				
AK		REVISED PER TDRR [illegible]				
AL		REVISED PER TDRR 28782				
AM		REVISED PER TDRR [illegible]				
AN		REVISED PER TDRR [illegible]				
AP		REVISED PER TDRR [illegible]				
AR		REVISED PER TDRR [illegible]				
AS		REVISED PER TDRR [illegible]				
AT		REVISED PER TDRR [illegible]				
AU		REVISION STATUS CHANGE				
AV		REVISED PER TDRR [illegible]				
AW		REVISED PER TDRR [illegible]				
AY		REVISED PER TDRR [illegible]				
BA		REVISED PER TDRR 31118				
BB		REVISED PER TDRR [illegible]				
BC		REVISED PER TDRR [illegible]				
BD		REVISED PER TDRR [illegible]				
BE		REVISED PER TDRR 31563				
BF		REVISED PER TDRR 31571				
BG		REVISED PER TDRR [illegible]				
BH		REVISED PER TDRR [illegible]				
BJ		REVISION STATUS CHANGED				
BK		REVISED PER TDRR 31930				
BL		REVISION STATUS CHANGED				
BM		REVISED PER TDRR 32004				
BN		REVISED PER TDRR 32167				
BP		REVISED PER TDRR 32284				
BR		REVISED PER TDRR [illegible]				
BS		REVISION STATUS CHANGED	VM			
BT		REVISED PER TDRR 32595	LL			
BU		REVISED PER TDRR 32745				
BV		REVISED PER TDRR 32837	BW			

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106, 32, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108) ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G&N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN µf RESISTOR VALUES ARE IN OHMS
TOLERANCES ON FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
—

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT
APPROVED MSC

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	1014999

SCALE — SHEET 1 OF 2

2/1014999

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)	
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)	
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE	
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE	
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL	
	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS 1352C04 LL6			NAS1352C04LL6		NAS 1352C04 LL6						30	SCREW, CAP SOC HD	
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR	
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)	
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY	
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY	
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY	
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4
	1021304 - 031	1021304 - 031	1021304 - 031			1021304 - 011		1021304 - 041						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY	
								1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 12
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12
		1026072 REV-					1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12
							1026011 REV. A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12
		1026069 REV-					1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12
							1026035 REV -	1026057 REV. B						1	G & N TO SC POLARITY TEST	SEE NOTE 12
							1026047 REV -							1	ACE-G&N 132-OPT D E-MEMORY	SEE NOTE 12
							1026048 REV C	1026065 REV-						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12
							1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12
								1026059 REV-						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12
								1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12
								1026063 REV-						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12
								1026060 REV B								
	1026138 REV-													1	PIPA SCALE FACTOR TEST	SEE NOTE 10
	1026117 REV-													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10
	1026139 REV-A	*1026100 REV B*	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10
	1026119 REV-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10
									1026019 REV -					1	K START CONTROL MISSION PPOFILE	SEE NOTE 10
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10
			1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10
	1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10
	1026117 REV-		1026043 REV -				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10
	1026118 REV-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10
									1008268					1	WIRE HARNESS "G"	SEE NOTE 9
							2018898							1	WIRING HARNESS	
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET	
							1010705 8							1	CLAMP LOOP	
							1010705 - 6							1	CLAMP LOOP	
							1010705 - 5							1	CLAMP LOOP	
CONFIGURATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS
G & N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23209			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24036	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12 28 65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK
AA		REVISED PER TDRR 26318	RAJ		2-15-66	WK
AB		REVISED PER TDRR 26620	"		2-23-66	WK
AC		REVISED PER TDRR 26821	"		3-4-66	MCM
AD		REVISED PER TDRR 26866	"		3-8-66	WK
AE		REVISED PER TDRR 27175	"		3-15-66	WK
AF		REVISED PER TDRR 27353	"		3-22-66	WK
AG		REVISED PER TDRR 27751	"		4-5-66	MCM
AH		REVISED PER TDRR 27933	"		4-13-66	MCM
AJ		REVISED PER TDRR 28206	"		4-28-66	WK
AK		REVISED PER TDRR 28374	"		5-3-66	WK
AL		REVISED PER TDRR 28732	"		5-12-66	MCM
AM		REVISED PER TDRR 28867	"		5-24-66	MCM
AN		REVISED PER TDRR 29164	"		5-31-66	MCM
AP		REVISED PER TDRR 29188	"		6-9-66	MCM
AR		REVISED PER TDRR 29362	"		6-13-66	MCM
AS		REVISED PER TDRR 29716	"		6 29 66	MCM
AT		REVISION STATUS CHANGED	RPS	JI	3 AUG 66	
AU		REVISED PER TDRR 30375	GW	JI	19 AUG 66	
AV		REVISION STATUS CHANGED	PIW	JT	24 AUG 66	
AW		REVISED PER TDRR 30692	RLW	JI	24 AUG 66	
AY		REVISED PER TDRR 30818	TA	RLW	6 SEPT 66	
AZ		REVISED PER TDRR [illegible]		RLW		
BA		REVISION STATUS CHANGED	JJB	NS	14 SEP 66	
BB		REVISION PER TDRR 31248	ME	RLW	29 SEP 66	
BC		REVISION STATUS CHANGED	EC	RLW	10 OCT 66	
BD		REVISION STATUS CHANGED	EC	RLW	11 OCT 66	
BE		REVISED PER TDRR 31523	JC	RLW	22 OCT	
BF		REVISION STATUS CHANGED	JC	RLW	22 OCT 66	
BG		REVISED PER TDRR 31632	WA	RLW	1 NOV 66	
BH		REVISION STATUS CHANGED	WA	RLW	7 NOV 66	
BJ		REVISED PER TDRR 31836	WA	RLW	9 NOV 66	
BK		REVISED PER TDRR 31930	WA	EZ	21 NOV 66	
BL		REVISED PER TDRR 32002	EC	EZ	28 NOV 66	
BM		REVISION STATUS	EC	EZ	30 NOV 66	
BN		REVISED PER TDRR 32167	GK	CP	10 DEC 66	
BP		REVISED PER TDRR 32284	VM	EZ	21 DEC 66	
BR		REVISION STATUS CHANGED	VM	EZ	21 DEC 66	
BS		REVISED PER TDRR 32358	VM	EZ	66	
BT		REVISED PER TDRR 32595	LL		11 JAN. 67	
BU		REVISED PER TDRR 32745	ME	EZ	23 JAN 67	
BV		REVISED PER TDRR 32837	DW	EZ	2 FEB 67	

RATION DASH NO.	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
N SYSTEMS	123	122	121	109	111	110	17	12	20	8	7	6	5					
									1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
									1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
									1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
									1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
									1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
									1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
									1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																		173
																		172
																		171
																		170
																		169
																		168
																		167
																		166
																		165
																		164
																		163
	1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
	1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
	1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
	1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
	1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
	NAS 1352 C04 LL6	NAS 1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS 1352C04LL6						30	SCREW, CAP SOC HD		40	157
	1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
	1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
	1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
	1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
	1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
	1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
	1021304 - 031	1021304 - 031	1021304 - 051			1021304 - 011		1021304 - 041						1	COUPLING DISPLAY ASSEMBLY	SEE NOTE 4	40	150
							1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
	1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255 - 051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																		147
								1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
							1026034 REV. C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
							1026014 REV. -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
							1026015 REV. B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
		1026072 REV-					1026012 REV. B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
							1026011 REV. A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
		1026069 REV-					1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
							1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
							1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
							1026035 REV -	1026057 REV. B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55	137
							1026047 REV -							1	ACE-G&N 132-OPT DE-MEMORY	SEE NOTE 12	55	136
							1026048 REV C	1026065 REV-						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
							1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
								1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
								1026059 REV-						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
								1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
								1026063 REV-						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
								1026060 REV B										129
	1026138 REV-													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
	1026117 REV-													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
	1026139 REV-A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
	1026119 REV-		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
									1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
							1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
			1026045 REV-				1026016 REV -	1026018 REV-	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
							1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
	1026115 REV A		1026041 REV-				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
	1026117 REV-		1026043 REV-				1026003 REV -	1026026 - REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
	1026116 REV A		1026042 REV -				1026002 REV -	1026027 - REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
	1026118 REV-						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8							1	CLAMP LOOP			113
							1010705 - 6							1	CLAMP LOOP			112
							1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R A Jones Oct 4 1965
CHECKED A J Lemaire Oct 5 1965
APPROVED
APPROVED D. HOAG for J.W.R. WK
APPROVED MIT W Kupfer 6 Oct 65
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

2/1014999

1014883

NOTES:

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.

2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER INDICATES QUANTITY OF THAT PART.

3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.

4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 32, 37, 58, 67, 76, 106, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I.

5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.

6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.

8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

9. REQUIRED FOR THERMAL VACUUM TEST.

10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

		1000110-307	1000110-307	1000110-307
		1001591	1001591	1001591
		1000293	1000293	1000293
		1001469	1001469	1001469
		1001470	1001470	1001470
		1010400-5	1010400-5	1010400-5
		1007585-011	1007585-011	1007585-01
		2011788	2011788	2012691
		2012667	2012667	2012667
		2012699	2012699	2012699
		2012700	2012700	2012700
		2012719	2012719	2012719
		1011625-39 (5)	1011625-39 (5)	1011625-39
		1021407	1021407	1021407
		1899994-011	1899994-011	1899994-011
		AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L
		1010728-001	1010728-001	1010728-001
		1899975	1899975	1899975
		1010827	1010827	1010827
		1899971	1899971	1899971
		1010828	1010828	1010828
		1899997-002	1899997-002	1899997-00
		1899997-001	1899997-001	1899997-001
		1899980	1899980	1899980
		1899978	1899978	1899978
		1899974	1899974	1899974
		1899950-191	1899950-321	1899950-291
		1010705-6	1010705-6	1010705-6
		1010705-8 (2)	1010705-8 (2)	1010705-8 (
		1010400 (10)	1010400 (10)	1010400 (1
		1015086-011	1015086-011	1015086-011
		2014764-021	2014764-021	2014764-021
		2014764-011	2014764-011	2014764-011
		1021373-041	1021373-041	1021373-031
		1014532	1014532	1014532
		1014502-021	1014502-021	1014502-021
		1015064-021	1015064-021	1015064-031
		1014628-021	1014628-021	1014628-021
		1015065-091	1015065-091	1015065-091
		1014664-031	1014664-031	1014664-031
		1008591	1008591	1008591
		1007220	1007220	1007220
		1007580-021	1007580-021	1007580-021
		1007579-021	1007579-021	1007579-021
		1007578-021	1007578-021	1007578-021
		1007593-011	1007593-011	1007593-011
		1007577-031	1007577-031	1007577-031
		1007576-021	1007576-021	1007576-031
		1007575-031	1007575-031	1007575-031
		1007574-031	1007574-031	1007574-031
		1007573-031	1007573-031	1007573-031
		1007572-041	1007572-041	1007572-041
		1007571-031	1007571-031	1007571-031
		1007570-021	1007570-021	1007570-031
		1001500-111	1001500-091	1001500-091
		1007700-051	1007700-051	1007700-051
		1004866-011	1004866-011	1004866-011
		1003563-051	1003563-051	1003563-051
		MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80
		MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807
		MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (
		1004669	1004669	1004669
		1004670-041	1004670	1004670
		1003706-051	1003706-051	1003706-051
		1004730	1004730	1004730
		1003734	1003734	1003734
		1004728	1004728	1004728
		MS 15795-808	MS 15795-808	MS 15795-808
		1010630-40	1010630-40	1010630-40
		1010630-39	1010630-39	1010630-39
		1004783	1004783	1004783
		1003730	1003730	1003730
		1003735	1003735	1003735
		MS 16996-10	MS 16996-10	MS 16996-10
		MS 16996-13	MS 16996-13	MS 16996-13
		1003700-051	1003700-051	1003700-051
		1003770-161	1003770-161	1003770-161
INCORPORATED ECP'S		206, 225, 232, 234, 240, 243, 246, 265, 266, 267, 268, 269, 270, 180, 169, 354, 175, 209, 290, 429, 407, 441, 438, 418, 463, 500	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 354, 290, 169, 429, 407, 441, 438, 348, 209, 335, 418, 427, 463	171, 160, 234, 180, 2 267, 270, 206, 211, 225, 240, 243, 246, 295, 169, 175, 266, 269, 347, 209, 232, 290, 123, 429, 407, 438, 348, 444, 327, 446, 427, 463
OUTSTANDING ECP'S		427, 0474, 423	0474, 423	0456, 0469, 04 423
CONFIGURATION DASH NO.		-121	-111	-101
G & N SYSTEMS		123	122	121

1014999 REV LTR BW SHEET 1 OF 2

1/1014999

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	BW	REPLACES REV BV WITH CHANGE PER TDRR32964	CHG NO.	14 FEB 67	AF DW

						1010400-9							1	CLAMP, HINGED LOOP			109
						1010400-4							2	CLAMP, HINGED LOOP			108
						2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
						2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4&5		106
													1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY. FLEX, IMU TO S/C		55	100
1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																	97
2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
						1011787		1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2012667	2012667	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
2012699	2012699	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS1352 C06-8	NAS 1352 C06-8	NAS1352 C06-8	NAS1352 C06-8	NAS1352 C06-8	NAS1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899904-011	1899904-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-311	1899950-321	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
			1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
			1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
			1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
			1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
			1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
1021373-041	1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1023080-011	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-021	1007578-021	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	STARTING PLUG		45	51
1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-021	1007570-021	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011	-	POWER AND SERVO ASSY	REFERENCE	45	43
			AN 365 D-440	AN 365 D-440		AN 365 D-440		AN 365 D-440	AN 365 D-440	AN 365 D-440	AN 365 D-440	AN 365 D-440	10	NUT, SPECIAL STUD		40	42
			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-111	1001500-091	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
						1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD1	1003553-011	1003495-011	1003459-MD2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS15795-807 (4)	MS15795-807 (4)	MS 15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS16995-26 (4)	MS16995-26 (4)	MS 16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670-011	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD1	1003524 MD1	1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795-808	MS 15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS 15795-808	MS 15795-808	MS15795-808	MS15795-808	MS 15795-808			2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10			4	SCREW, SOC HD HEX		5	15
MS 16996-13	MS 16996-13	MS 16996-13	MS16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS16996-13	MS16996-13	MS 16996-13	MS16996-13			2	SCREW, SOC HD HEX		5	14
												1003457	1	AGC CONN COVER PLATE		5	13
												1003180	1	AGC TOE PLATE		5	12
											1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
											AN 104608	AN 104608	4	SCREW, HEX HD		5	10
											AN 104606	AN 104606	4	SCREW, HEX HD		5	9
											1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
											1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
											1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
											1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
											1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
											1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003700-071	1003565-031	1003700-011	1003700-011	1003496-011 MD1	1003186 MD2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770-161	1003770-161	1003770-161	1003770-161	1003770-161	1003770-171	1003770-131	1003770-131	1003770-111	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
206, 225, 232, [illegible], 240, 243, 246, 266, [illegible], 267, 268, 269, 270, [illegible], 169, 354, 175, 209, [illegible], 429, 407, 441, 438, [illegible], 463, 500	234, 180, 225, 240, 243, 246, 267, 270, 265, 295, 175, 211, 266, 268, 269, 219, 206, 232, 354, 290, 169, 429, 407, 441, 438, 348, 209, 335, 418, 427, 463	171, 160, 234, 180, 265, 267, 270, 206, 211, 219, 225, 240, 243, 246, 252, 295, 169, 175, 266, 268, 269, 347, 209, 232, 354, 290, 123, 429, 407, 441, 438, 348, 444, 327, 418, 446, 427, 463	234, 225, 123, 180, 252, 295, 290, 337	169, 180, 123, 232, 234, 240, 243, 246, 252, 265, 290, 295, 337, 267	171, 234, 206, 246, 240, 265, 225, 267, 268, 243, 266, 269, 270, 412, 285, 175, 232, 354, 169, 290, 123, 337, 412	25, 130, 137, 175, 177, 180, 190, 206, 232, 234, 246, 251, 266, 290, 425, 426	25, 83, 84, 130, 137, 160, 165, 169, 175, 177, 180, 190, 206, 211, 219, 232, 234, 243, 250, 265, 277, 290, 327, 354, 407, 426, 429, 438, 441, 444, 463, 456, 423, 474	2, 20, 25, 63, 96. 109, 116, 130, 159, 160, 169, 177, 180, 206, 208, 223, 234, 290, 328, 332, 407, 426	2, TD203, 234, 224	2, C017	2, 9, 234	25, 234	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
427, 0474, 423	0474, 423	0456, 0469, 0474, 423	174, 211, 209, 232, 202, 206	0456, 270, 354, 174, 202, 206, 209. 211, 407, 269. 327	174, 202, 209, 407			327, 423	130, 175	234							
-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
123	122	121	109	111	110	17	12	20	8	7	6	5					

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —	M I T INSTRUMENTATION LAB CAMBRIDGE MASS
			DRAWN R.A. JONES DATE 13 SEP 65
			CHECKED A.J.L. 13 SEP 65
			APPROVAL T.A. D.HOAG 14 SEP 65 PER TDRR W.K.
		DO NOT SCALE THIS DRAWING	CONTRACT
ND1000000		MATERIAL —	NASA APPROVAL
NEXT ASSY	USED ON		
APPLICATION		APPROVAL	NASA APPROVAL 13 SEP 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

SIZE J2 | CODE IDENT NO. 80230 | 1014999

SCALE ~ | SHEET 1 OF 2

1014999 BW 1 OF 2

27/1014999

	1017577	1017577	1017577	
	1017576	1017576	1017576	
	1021289 - 3	1021289 - 3	1021289 - 3	
	1021289 - 4	1021289 - 4	1021289 - 4	
	1017575	1017575	1017575	
	NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	
	1021305	1021305	1021305	
	1021299	1021299	1021299	
	1021303 - 011	1021303 - 011	1021303 - 011	
	1015500 - 081	1015500 - 081	1015500 - 081	
	1015500 - 071	1015500 - 071	1015500 - 071	
	1021302 - 011	1021302 - 011	1021302 - 011	
	1021304 - 031	1021304 - 031	1021304 - 031	
	1021255 - 041	1021255 - 041	1021255 - 041	
		1026072 REV -		
		1026069 REV -		
	1026138 REV -			
	1026117 REV -			
	1026139 REV A	1026100 REV B	1026044 REV -	
	1026119 REV -		1026046 REV -	
			1026045 REV -	
	1026115 REV A		1026041 RE	
	1026117 REV -		1026043 RE	
	1026116 REV A		1026042 REV -	
	1026118 REV -			
CONFIGURATION DASH NO.		-121	-111	-101	-
G & N SYSTEMS		123	122	121	

1014999

REV LTR BW

SHEET 2 OF 2

1/1014999

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	BW	REPLACES REV BV WITHOUT CHANGE PER TDRR 32964	CHG NO.	14 FEB 67.	AF

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
123	122	121	109	111	110	17	12	20	8	7	6	5					
								1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
								1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
								1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
								1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
								1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
								1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
								1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																	173
																	172
																	171
																	170
																	169
																	168
																	167
																	166
																	165
																	164
																	163
1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
1021289 - 33	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
1021289 - 44	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
NAS1352 044LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
1021303 - 0011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
1015500 - C081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
1015500 - 0071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
1021302 - 0011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
1021304 - 0031	1021304 - 031	1021304 - 031			1021304 - 011		1021304 - 041						1	COUPLING DISPLAY ASSEMBLY.	SEE NOTE 4	40	150
						1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
1021255 - 0041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 051	1021255 - 031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																	147
							1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
						1026034 REV C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
						1026014 REV -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
						1026015 REV B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
	1026072 REV -					1026012 REV B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
						1026011 REV A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
	1026069 REV -					1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
						1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
						1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
						1026035 REV -	1026057 REV B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55.	137
						1026047 REV -							1	ACE-G&N 132 OPT DE-MEMORY	SEE NOTE 12	55	136
						1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
						1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
							1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
							1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
							1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
							1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
							1026060 REV B										129
1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
1026139 REV A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
								1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
						1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
		1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
						1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
1026117 REV -		1026043 REV				1026003 REV -	1026026 REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
1026116 REV A		1026042 REV -				1026002 REV -	1026027 REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
								1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
						2018898							1	WIRING HARNESS			115
						1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
						1010705 - 8							1	CLAMP LOOP			113
						1010705 - 6							1	CLAMP LOOP			112
						1010705 - 5							1	CLAMP LOOP			111
						1010705 - 4							1	CLAMP LOOP			110

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN R.A. JONES DATE 4 OCT 66
CHECKED A.J.L. 5 OCT 66
APPROVAL D. HOAG
PER TDRR
CONTRACT
NASA APPROVAL
MIT APPROVAL W. KEIFFER

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

SIZE J
CODE IDENT NO. 80230
1014999
SCALE
SHEET 2 OF 2

1014999
REV LTR BW
SHEET 2 OF 2

2/1014999

1014883

NOTES:

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.

2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER INDICATES QUANTITY OF THAT PART.

3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.

4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 32, 37, 58, 67, 76, 106, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I.

5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.

6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.

8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

9. REQUIRED FOR THERMAL VACUUM TEST.

10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24
FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
TABLE I (SEE NOTE 4)		

	1000110-307	1000110-307	1000110-307
	1001591	1001591	1001591
	1000293	1000293	1000293
	1001469	1001469	1001469
	1001470	1001470	1001470
	1010400-5	1010400-5	1010400-5
	1007585-011	1007585-011	1007585-011
	2011788	2011788	2012691
	2012667	2012667	2012667
	2012699	2012699	2012699
	2012700	2012700	2012700
	2012719	2012719	2012719
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)
	1021407-011	1021407-011	1021407
	1899994-011	1899994-011	1899994-011
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L
	1010728-001	1010728-001	1010728-001
	1899975	1899975	1899975
	1010827	1010827	1010827
	1899971	1899971	1899971
	1010828	1010828	1010828
	1899997-002	1899997-002	1899997-002
	1899997-001	1899997-001	1899997-001
	1899980	1899980	1899980
	1899978	1899978	1899978
	1899974	1899974	1899974
	1899950-341	1899950-331	1899950-291
	1010705-6	1010705-6	1010705-6
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)
	1010400 (10)	1010400 (10)	1010400 (10)
	1015086-011	1015086-011	1015086-011
	2014764-021	2014764-021	2014764-021
	2014764-011	2014764-011	2014764-011
	1021373-041	1021373-041	1021373-031
	1014532	1014532	1014532
	1014502-021	1014502-021	1014502-021
	1015064-021	1015064-021	1015064-031
	1014628-021	1014628-021	1014628-021
	1015065-091	1015065-091	1015065-091
	1014664-031	1014664-031	1014664-031
	1008591	1008591	1008591
	1007220	1007220	1007220
	1007580-021	1007580-021	1007580-021
	1007579-021	1007579-021	1007579-021
	1007578-031	1007578-031	1007578-021
	1007593-011	1007593-011	1007593-011
	1007577-031	1007577-031	1007577-031
	1007576-021	1007576-021	1007576-031
	1007575-031	1007575-031	1007575-031
	1007574-031	1007574-031	1007574-031
	1007573-031	1007573-031	1007573-031
	1007572-041	1007572-041	1007572-041
	1007571-031	1007571-031	1007571-031
	1007570-041	1007570-041	1007570-031
	1001500-111	1001500-111	1001500-091
	1007700-051	1007700-051	1007700-051
	1004866-011	1004866-011	1004866-011
	1003563-051	1003563-051	1003563-051
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)
	MS15795-807 (4)	MS15795-807 (4)	MS 15795-807 (4)
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)
	1004669	1004669	1004669
	1004670-041	1004670	1004670
	1003706-051	1003706-051	1003706-051
	1004730	1004730	1004730
	1003734	1003734	1003734
	1004728	1004728	1004728
	MS 15795-808	MS 15795-808	MS 15795-808
	1010630-40	1010630-40	1010630-40
	1010630-39	1010630-39	1010630-39
	1004783	1004783	1004783
	1003730	1003730	1003730
	1003735	1003735	1003735
	MS 16996-10	MS 16996-10	MS 16996-10
	MS 16996-13	MS 16996-13	MS 16996-13
	1003700-051	1003700-051	1003700-051
OUTSTANDING ECP'S	474 (PARTIAL)	474 (PARTIAL)	456, 474 (PARTIAL)
CONFIGURATION DASH NO.	-121	-111	-101
G & N SYSTEMS	123	122	121

1014999 REV LTR BY SHEET 1 OF 2

1/1014999

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	BW	REPLACES REV BV WITH CHANGE PER TDRR32964	CHG NO.	14 FEB 67	AF DW
—	BY	REVISED PER TDRR 33931	—	13 JUN 67	

						1010400-9							1	CLAMP, HINGED LOOP			109
						1010400-4							2	CLAMP, HINGED LOOP			108
						2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
						2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4&5		106
													1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																	97
2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
						1011787		1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2012667	2012667	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
2012699	2012699	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS1352 C06-8	NAS 1352 C06-8	NAS1352 C06-8	NAS1352 C06-8	NAS1352 C06-8	NAS1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407-011	1021407-011	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899904-011	1899904-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-341	1899950-331	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
			1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
			1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
			1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
			1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
			1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
1021373-041	1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1023080-011	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-031	1007578-031	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	SHORTING PLUG		45	51
1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-041	1007570-041	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
			AN365D-440	AN365D-440		AN365D-440		AN365D-440	AN365D-440	AN365D-440	AN365D-440	AN365D-440	10	NUT, SPECIAL STUD		40	42
			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-111	1001500-111	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
						1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD1	1003553-011	1003495-011	1003459-MD2	1	AGC MAIN DSKY		5	31
MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80	MS35337-80	MS35337-80	MS35337-80	2	WASHER, LOCK		5	30
MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807	MS15795-807	MS15795-807	MS15795-807	2	WASHER, FLAT		5	29
MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26	MS16995-26	MS16995-26	MS16995-26	2	SCREW, SOC HD		5	28
1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670-041	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD1	1003524 MD1	1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003[illegible]4	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808			2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10			4	SCREW, SOC HD HEX		5	15
MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13			2	SCREW, SOC HD HEX		5	14
												1003457	1	AGC CONN COVER PLATE		5	13
												1003180	1	AGC TOE PLATE		5	12
											1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
											AN104608	AN104608	4	SCREW, HEX HD		5	10
											AN104606	AN104606	4	SCREW, HEX HD		5	9
											1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
											1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
											1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
											1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
											1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
											1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-051	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003700-071	1003565-031	1003700-011	1003700-011	1003496-011 MD1	1003186 MD2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
																	1
													QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
474 (PARTIAL)	474 (PARTIAL)	456, 474 (PARTIAL)															
-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
123	122	121	109	111	110	17	12	20	8	7	6	5					

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS + — − 3 PLACE DECIMALS + — − ANGLES + — −	MIT INSTRUMENTATION LAB CAMBRIDGE MASS DRAWN R.A.JONES DATE 13 SEP 65 CHECKED A.J.L. 13 SEP 65 APPROVAL T.A. DIXON 14 SEP 65 PER TDRR W.K. CONTRACT
ND1000000		DO NOT SCALE THIS DRAWING	NASA APPROVAL ———
NEXT ASSY	USED ON	MATERIAL ———	MIT APPROVAL McM 15 SEP 65
APPLICATION		APPROVAL	

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

SIZE J2 CODE IDENT NO. 80230 1014999

SCALE ~ SHEET 1 OF 2

1014999 REV LTR BY SHEET 1 OF 2

27-1014999

			1026082 REV. –	
			1026081 REV. –	
			1026080 REV. –	
			1026076 REV. –	
			1026074 REV. –	
			1026066 REV. –	
		1017577	1017577	1017577
		1017576	1017576	1017576
		1021289 - 3	1021289 - 3	1021289 - 3
		1021289 - 4	1021289 - 4	1021289 - 4
		1017575	1017575	1017575
		NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6
		1021305	1021305	1021305
		1021299	1021299	1021299
		1021303 - 011	1021303 - 011	1021303 - 011
		1015500 - 081	1015500 - 081	1015500 - 081
		1015500 - 071	1015500 - 071	1015500 - 071
		1021302 - 011	1021302 - 011	1021302 - 011
		1021304 - 031	1021304 - 031	1021304 - 031
		1021255 - 041	1021255 - 041	1021255 - 041
			1026071 REV. B	
			1026075 REV. A	
			1026072 REV –	
			1026069 REV –	
			1026070 REV. –	
			1026079 REV. –	
			1026073 REV. –	
		1026138 REV –		
		1026117 REV –		
		1026139 REV A	1026100 REV B	1026044 REV –
		1026119 REV –		1026046 REV –
				1026045 REV –
		1026115 REV A		1026041 REV –
		1026117 REV –		1026043 REV –
		1026116 REV A		1026042 REV –
		1026118 REV –		
CONFIGURATION DASH NO.		-121	-111	-101
G & N SYSTEMS		123	122	121

1014999	REV LTR B ✓	SHEET 2 OF 2

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	BW	REPLACES REV BV WITHOUT CHANGE PER TDRR 32964	CHG NO.	14 FEB 67.	AF
	BY	REVISED PER TDRR33931		15 JUN 67	

-121 123	-111 122	-101 121	-071 109	-091 111	-081 110	-051 17	-041 12	-061 20	-031 8	-021 7	-011 6	-000 5	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
								1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
								1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
								1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
								1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
								1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
								1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																	173
																	172
																	171
																	170
	1026082 REV. –												1	G&N/SCS END TO END RAMP TEST	SEE NOTE 12	55	169
	1026081 REV. –												1	G&N SCS INTERFACE TEST	SEE NOTE 12	55	168
	1026080 REV. –												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	167
	1026076 REV. –												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	166
	1026074 REV. –												1	AGC ALARMS & INTERRUPTS	SEE NOTE 12	55	165
	1026066 REV.-												1	G&N SCS COUNTDOWN TESTS	SEE NOTE 12	55	164
																	163
1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP. ASSY)		40	155
1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
1021304 - 031	1021304 - 031	1021304 - 031			1021304 - 011		1021304 - 041						1	COUPLING DISPLAY ASSEMBLY.	SEE NOTE 4	40	150
						1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 051	1021255 - 031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																	147
	1026071 REV. B						1026064 REV –						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
	1026075 REV. A					1026034 REV C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
						1026014 REV -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
						1026015 REV B	1026053 REV –						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
	1026072 REV -					1026012 REV B	1026052 REV –						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
						1026011 REV A	1026054 REV –						1	G & N POLARITY TEST	SEE NOTE 12	55	141
	1026069 REV -					1026024 REV -	1026049 REV –						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
						1026022 REV -	1026050 REV –						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
						1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
	1026070 REV.-					1026035 REV -	1026057 REV B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55.	137
						1026047 REV -							1	ACE-G&N 132 OPT DE-MEMORY	SEE NOTE 12	55	136
	1026079 REV.-					1026048 REV C	1026065 REV –						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
	1026073 REV. -					1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
							1026058 REV –						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
							1026059 REV –						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
							1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
							1026063 REV –						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
							1026060 REV B										129
1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
1026139 REV A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV –						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
1026119 REV -		1026046 REV -					1026020 REV –						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
								1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
						1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
		1026045 REV -				1026016 REV -	1026018 REV-	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
						1026009 REV -	1026038 REV-	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV-	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
1026117 REV -		1026043 REV -				1026003 REV -	1026026 REV-	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
1026116 REV A		1026042 REV -				1026002 REV -	1026027 REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
								1008268					1	WIRE HARNESS "6"	SEE NOTE 9		116
						2018898							1	WIRING HARNESS			115
						1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
						1010705 - 8							1	CLAMP LOOP			113
						1010705 - 6							1	CLAMP LOOP			112
						1010705 - 5							1	CLAMP LOOP			111
						1010705 - 4							1	CLAMP LOOP			110

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±	MIT INSTRUMENTATION LAB CAMBRIDGE MASS
APPLICATION		DO NOT SCALE THIS DRAWING	DRAWN R.A. JONES DATE 4 OCT 65
		MATERIAL —	CHECKED A.J.L. 5 OCT 65
		APPROVAL	APPROVAL D. HOAG
			CONTRACT PER TDRR
			NASA APPROVAL
			MIT APPROVAL W. KEIFFER 5 OCT 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

SIZE — CODE IDENT NO. 80230 1014999

SCALE SHEET 2 OF 2

1014999

14999 REV LTR BY SHEET 2 OF 2

2/1014999

NOTES:

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.

2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER INDICATES QUANTITY OF THAT PART.

3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.

4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 32, 37, 58, 67, 76, 106, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I.

5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.

6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: NONE.

8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

9. REQUIRED FOR THERMAL VACUUM TEST.

10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

1014999

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G & N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

		1000110-307	1000110-307	1000110-307
		1001591	1001591	1001591
		1000293	1000293	1000293
		1001469	1001469	1001469
		1001470	1001470	1001470
		1010400-5	1010400-5	1010400-5
		1007585-011	1007585-011	1007585-011
		2011788	2011788	2012691
		2012667	2012667	2012667
		2012699	2012699	2012699
		2012700	2012700	2012700
		2012719	2012719	2012719
		1011625-39 (5)	1011625-39 (5)	1011625-39 (5)
		1021407-011	1021407-011	1021407
		1899994-011	1899994-011	1899994-011
		AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L
		1010728-001	1010728-001	1010728-001
		1899975	1899975	1899975
		1010827	1010827	1010827
		1899971	1899971	1899971
		1010828	1010828	1010828
		1899997-002	1899997-002	1899997-002
		1899997-001	1899997-001	1899997-001
		1899980	1899980	1899980
		1899978	1899978	1899978
		1899974	1899974	1899974
		1899950-341	1899950-331	1899950-291
		1010705-6	1010705-6	1010705-6
		1010705-8 (2)	1010705-8 (2)	1010705-8 (2)
		1010400 (10)	1010400 (10)	1010400 (10)
		1015086-011	1015086-011	1015086-011
		2014764-021	2014764-021	2014764-021
		2014764-011	2014764-011	2014764-011
		1021373-041	1021373-041	1021373-031
		1014532	1014532	1014532
		1014502-021	1014502-021	1014502-021
		1015064-021	1015064-021	1015064-031
		1014628-021	1014628-021	1014628-021
		1015065-091	1015065-091	1015065-091
		1014664-031	1014664-031	1014664-031
		1008591	1008591	1008591
		1007220	1007220	1007220
		1007580-021	1007580-021	1007580-021
		1007579-021	1007579-021	1007579-021
		1007578-031	1007578-031	1007578-021
		1007593-011	1007593-011	1007593-011
		1007577-031	1007577-031	1007577-031
		1007576-021	1007576-021	1007576-031
		1007575-031	1007575-031	1007575-031
		1007574-031	1007574-031	1007574-031
		1007573-031	1007573-031	1007573-031
		1007572-041	1007572-041	1007572-041
		1007571-031	1007571-031	1007571-031
		1007570-041	1007570-041	1007570-031
		1001500-111	1001500-111	1001500-091
		1007700-051	1007700-051	1007700-051
		1004866-011	1004866-011	1004866-011
		1003563-051	1003563-051	1003563-051
		MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)
		MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)
		MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)
		1004669	1004669	1004669
		1004670	1004670	1004670
		1003706-051	1003706-051	1003706-051
		1004730	1004730	1004730
		1003734	1003734	1003734
		1004728	1004728	1004728
		MS 15795-808	MS 15795-808	MS 15795-808
		1010630-40	1010630-40	1010630-40
		1010630-39	1010630-39	1010630-39
		1004783	1004783	1004783
		1003730	1003730	1003730
		1003735	1003735	1003735
		MS 16996-10	MS 16996-10	MS 16996-10
		MS 16996-13	MS 16996-13	MS 16996-13
		1003700-071	1003700-051	1003700-051
OUTSTANDING ECP'S			474 (PARTIAL)	456, 474 (PARTIAL)
CONFIGURATION DASH NO.		-121	-111	-101
G & N SYSTEMS		123	122	121

1014999 REV LTR BZ SHEET 1 OF 2

ZONE	LTR	DESCRIPTION	CHG NO.	DATE	APPROVED
	BW	REPLACES REV BV WITH CHANGE PER TDRR 32964		14 FEB 67	AF DW
—	BY	REVISED PER TDRR 33931	—	13 JUN 67	JS
	BZ	REVISED PER TDRR 34123		17 JUL 67	JK JAC

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
						1010400-9							1	CLAMP, HINGED LOOP			109
						1010400-4							2	CLAMP, HINGED LOOP			108
						2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
						2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4&5		106
													1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY. FLEX, IMU TO S/C		55	100
1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																	97
2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
						1011787		1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2012667	2012667	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
2012699	2012699	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407-011	1021407-011	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899904-011	1899904-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-341	1899950-331	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
			1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
			1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
			1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
			1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
			1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
1021373-041	1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1023080-011	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-031	1007578-031	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	SHORTING PLUG		45	51
1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-041	1007570-041	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
			AN 365 D-440	AN 365 D-440		AN 365 D-440		AN 365 D-440	AN 365 D-440	AN 365 D-440	AN 365 D-440	AN 365 D-440	10	NUT, SPECIAL STUD		40	42
			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-111	1001500-111	1001500-091	1001500-021	1001500-051	1001500-081	1001500-041	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
						1012136			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD1	1003553-011	1003495-011	1003459-MD2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD1	1003524 MD1	1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
												1003457	1	AGC CONN COVER PLATE		5	13
												1003180	1	AGC TOE PLATE		5	12
											1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
											AN 104608	AN 104608	4	SCREW, HEX HD		5	10
											AN 104606	AN 104606	4	SCREW, HEX HD		5	9
											1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
											1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
											1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
											1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
											1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
											1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-071	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003700-071	1003565-031	1003700-011	1003700-011	1003496-011 MD1	1003186 MD2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
																	1
	474 (PARTIAL)	456, 474 (PARTIAL)															
123	122	121	109	111	110	17	12	20	8	7	6	5					

NEXT ASSY	USED ON
ND1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN R.A. JONES DATE 13 SEP 65
CHECKED A.J.L. 13 SEP 65
APPROVAL T.A. DHOAG 14 SEP 65
PER TDRR W.K.
CONTRACT
NASA APPROVAL
MIT APPROVAL McM 15 SEP 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

SIZE J2
CODE IDENT NO. 80230
1014999
SCALE —
SHEET 1 OF 2

1014999

4999 REV LTR BZ SHEET 1 OF 2

16 15 14 13 12 11 10 9

1014999

H G F E D C B A

			1026082 REV.-	
			1026081 REV.-	
			1026080 REV.-	
			1026076 REV.-	
			1026074 REV.-	
			1026066 REV.-	
		1017577	1017577	1017577
		1017576	1017576	1017576
		1021289 - 3	1021289 - 3	1021289 - 3
		1021289 - 4	1021289 - 4	1021289 - 4
		1017575	1017575	1017575
		NAS 1352 C04 LL6	NAS1352 C04LL6	NAS1352C04LL6
		1021305	1021305	1021305
		1021299	1021299	1021299
		1021303 - 011	1021303 - 011	1021303 - 011
		1015500 - 081	1015500 - 081	1015500 - 081
		1015500 - 071	1015500 - 071	1015500 - 071
		1021302 - 011	1021302 - 011	1021302 - 011
		1021304 - 031	1021304 - 031	1021304 - 031
		1021255 - 041	1021255 - 041	1021255 - 041
			1026071 REV. B	
			1026075 REV. A	
			1026072 REV -	
			1026069 REV -	
			1026070 REV.-	
			1026079 REV.-	
			1026073 REV.-	
		1026138 REV-		
		1026117 REV-		
		1026139 REV A	1026100 REV B	1026044 REV
		1026119 REV-		1026046 RE
				1026045 REV
		1026115 REV A		1026041 RE
		1026117 REV -		1026043 RE
		1026116 REV A		1026042 RE
		1026118 REV-		
CONFIGURATION DASH NO.		-121	-111	-101
G & N SYSTEMS		123	122	121

1014999	REV LTR BZ	SHEET 2 OF 2

16 15 14 13 12 11 10 9

1/1014999

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG NO.	DATE	APPROVED
	BW	REPLACES REV BV WITHOUT CHANGE PER TDRR 32964		14 FEB 67	AF
	BY	REVISED PER TDRR 33931		13 JUN 67	
	BZ	REVISION STATUS CH'G'D.		17 JUL 67	JAC

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
123	122	121	109	111	110	17	12	20	8	7	6	5					
								1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
								1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
								1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
								1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
								1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
								1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
								1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																	173
																	172
																	171
																	170
	1026082 REV. -												1	G&N/SCS END TO END RAMP TEST	SEE NOTE 12	55	169
	1026081 REV. -												1	G&N SCS INTERFACE TEST	SEE NOTE 12	55	168
	1026080 REV. -												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	167
	1026076 REV. -												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	166
	1026074 REV. -												1	AGC ALARMS & INTERRUPTS	SEE NOTE 12	55	165
	1026066 REV. -												1	G&N SCS COUNTDOWN TESTS	SEE NOTE 12	55	164
																	163
1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP ASSY)		40	155
1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
1021304 - 031	1021304 - 031	1021304 - 031			1021304 - 011		1021304 - 041						1	COUPLING DISPLAY ASSEMBLY.	SEE NOTE 4	40	150
						1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 051	1021255 - 031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																	147
	1026071 REV. B						1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
	1026075 REV. A					1026034 REV C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
						1026014 REV -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
						1026015 REV B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
	1026072 REV -					1026012 REV B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
						1026011 REV A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
	1026069 REV -					1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
						1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
						1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
	1026070 REV. -					1026035 REV -	1026057 REV B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55.	137
						1026047 REV -							1	ACE-G&N 132 OPT DE-MEMORY	SEE NOTE 12	55	136
	1026079 REV. -					1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
	1026073 REV. -					1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
							1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
							1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
							1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
							1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
							1026060 REV B										129
1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
1026139 REV A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
								1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
						1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
		1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
						1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
1026117 REV -		1026043 REV -				1026003 REV -	1026026 REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
1026116 REV A		1026042 REV -				1026002 REV -	1026027 REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
								1008268					1	WIRE HARNESS "6"	SEE NOTE 9		116
						2018898							1	WIRING HARNESS			115
						1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
						1010705 - 8							1	CLAMP LOOP			113
						1010705 - 6							1	CLAMP LOOP			112
						1010705 - 5							1	CLAMP LOOP			111
						1010705 - 4							1	CLAMP LOOP			110

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN R A JONES DATE 4 OCT 65
CHECKED A.J.L. 5 OCT 65
APPROVAL D. HOAG
CONTRACT PER TDRR
NASA APPROVAL
MIT APPROVAL W. KEIFFER 5 OCT 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

SIZE J | CODE IDENT NO. 80230 | 1014999
SCALE | SHEET 2 OF 2

1014999

4999 | REV LTR BZ | SHEET 2 OF 2

NOTES:

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.

2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER INDICATES QUANTITY OF THAT PART.

3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.

4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 32, 37, 58, 67, 76, 106, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I.

5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.

6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE : NONE.

8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

9. REQUIRED FOR THERMAL VACUUM TEST.

10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

11. FLIGHT PROGRAM TO BE FURNISHED DIRECT TO KSC.

12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

14. THE PARTS LISTED IN COLUMN "B" OF TABLE II ARE TO BE REMOVED FROM THE ASSEMBLY LISTED IN COLUMN "A" PRIOR TO S/C INSTALLATION. THE PARTS REMOVED ARE TO BE RETAIND WITH THE G & N SYSTEM FOR REUSE IN THE EVENT OF REMOVAL OF FIND NO. 35 OR 76 FROM THE S/C.

15. THE CONFIGURATION OF THESE SYSTEMS WILL NO LONGER BE MAINTAINED.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G & N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

COLUMN A	COLUMN B		
FIND NO.	NOMENCLATURE OR DESCRIPTION	PART NUMBER	QTY
76	IMU MOUNTING PADS	1899960	
	IMU MOUNTING PADS	1899959	
	IMU MOUNTING PADS	1899958	
	IMU MOUNTING PADS	1899957	
35	PROTECTIVE PADS	1001465	
	PROTECTIVE PADS	1001464	
	PROTECTIVE PADS	1001461	
	PROTECTIVE PADS	1001460	

TABLE II (SEE NOTE 14)

		1000110-307	1000110-307	1000110-307
		1001591	1001591	1001591
		1000293	1000293	1000293
		1001469	1001469	1001469
		1001470	1001470	1001470
		1010400-5	1010400-5	1010400-5
		1007585-011	1007585-011	1007585-011
		2011788	2011788	2012691
		2012667	2012667	2012667
		2012699	2012699	2012699
		2012700	2012700	2012700
		2012719	2012719	2012719
		1011625-39 (5)	1011625-39 (5)	1011625-39 (5)
		1021407-011	1021407-011	1021407
		1899994-011	1899994-011	1899994-011
		AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L
		1010728-001	1010728-001	1010728-001
		1899975	1899975	1899975
		1010827	1010827	1010827
		1899971	1899971	1899971
		1010828	1010828	1010828
		1899997-002	1899997-002	1899997-002
		1899997-001	1899997-001	1899997-001
		1899980	1899980	1899980
		1899978	1899978	1899978
		1899974	1899974	1899974
		1899950-341	1899950-331	1899950-291
		1010705-6	1010705-6	1010705-6
		1010705-8 (2)	1010705-8 (2)	1010705-8 (2)
		1010400 (10)	1010400 (10)	1010400 (10)
		1015086-011	1015086-011	1015086-011
		2014764-021	2014764-021	2014764-021
		2014764-011	2014764-011	2014764-011
		1021373-041	1021373-041	1021373-031
		1014532	1014532	1014532
		1014502-021	1014502-021	1014502-021
		1015064-021	1015064-021	1015064-031
		1014628-021	1014628-021	1014628-021
		1015065-091	1015065-091	1015065-091
		1014664-031	1014664-031	1014664-031
		1008591	1008591	1008591
		1007220	1007220	1007220
		1007580-021	1007580-021	1007580-021
		1007579-021	1007579-021	1007579-021
		1007578-031	1007578-031	1007578-021
		1007593-011	1007593-011	1007593-011
		1007577-031	1007577-031	1007577-031
		1007576-021	1007576-021	1007576-031
		1007575-031	1007575-031	1007575-031
		1007574-031	1007574-031	1007574-031
		1007573-031	1007573-031	1007573-031
		1007572-041	1007572-041	1007572-041
		1007571-031	1007571-031	1007571-031
		1007570-041	1007570-041	1007570-031
		1001500-111	1001500-111	1001500-091
		1007700-051	1007700-051	1007700-051
		1004866-011	1004866-011	1004866-011
		1003563-051	1003563-051	1003563-051
		MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)
		MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)
		MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)
		1004669	1004669	1004669
		1004670	1004670	1004670
		1003706-051	1003706-051	1003706-051
		1004730	1004730	1004730
		1003734	1003734	1003734
		1004728	1004728	1004728
		MS 15795-808	MS 15795-808	MS 15795-808
		1010630-40	1010630-40	1010630-40
		1010630-39	1010630-39	1010630-39
		1004783	1004783	1004783
		1003730	1003730	1003730
		1003735	1003735	1003735
		MS 16996-10	MS 16996-10	MS 16996-10
		MS 16996-13	MS 16996-13	MS 16996-13
		1003700-071	1003700-051	1003700-051
OUTSTANDING ECP'S			474 (PARTIAL)	456, 474 (PARTIAL)
CONFIGURATION DASH NO.		-121	-111	-101
G & N SYSTEMS		123	122	121
REMARKS				

1014999	REV LTR CA	SHEET 1 OF 2

1/1014999

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	BW	REPLACES REV BV WITH CHANGE PER TDRR 32964	CHG NO	14 FEB 67	AF
—	BY	REVISED PER TDRR 33931	—	13 JUN 67	
	BZ	REVISED PER TDRR 34123		17 JUL 67	JRC
	CA	REVISED PER TDRR 34589		18 SEP 67	GD

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
						1010400-9							1	CLAMP, HINGED LOOP			109
						1010400-4							2	CLAMP, HINGED LOOP			108
						2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
						2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4&5		106
													1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																	97
2011768	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
						1011787		1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2012667	2012667	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
2012699	2012699	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407-011	1021407-011	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899904-011	1899904-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-341	1899950-331	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4&14	65	76
			1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
			1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
			1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
			1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
			1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
1021373-041	1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1023080-011	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-031	1007578-031	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	SHORTING PLUG		45	51
1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-041	1007570-041	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
			AN365D-440	AN365D-440		AN365D-440		AN365D-440	AN365D-440	AN365D-440	AN365D-440	AN365D-440	10	NUT, SPECIAL STUD		40	42
			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-111	1001500-111	1001500-091	1001500-021	1001500-051	1001500-081	1001500-011	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	SEE NOTE 14	35	35
1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
						1012136-011			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD1	1003553-011	1003495-011	1003459-MD2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807	MS15795-807	MS15795-807	MS15795-807	2	WASHER, FLAT		5	29
MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26	MS16995-26	MS16995-26	MS16995-26	2	SCREW, SOC HD		5	28
1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD1	1003524 MD1	1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808			2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10			4	SCREW, SOC HD HEX		5	15
MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13			2	SCREW, SOC HD HEX		5	14
												1003457	1	AGC CONN COVER PLATE		5	13
												1003180	1	AGC TOE PLATE		5	12
											1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
											AN 104608	AN 104608	4	SCREW, HEX HD		5	10
											AN 104606	AN 104606	4	SCREW, HEX HD		5	9
											1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
											1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
											1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
											1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
											1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
											1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-071	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003700-071	1003565-031	1003700-011	1003700-011	1003496-011 MD1	1003186 MD2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
																	1
	474 (PARTIAL)	456, 474 (PARTIAL)															
123	122	121	109	111	110	17	12	20	8	7	6	5					
			SEE NOTE 15														

ND1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + — − | 3 PLACE DECIMALS + — − | ANGLES + — −
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

M I T
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN R.A. JONES DATE 13 SEP 65
CHECKED A.J.L. 13 SEP 65
APPROVAL T.A. DIXON 14 SEP 65 PER TDRR W.K.
CONTRACT
NASA APPROVAL
MIT APPROVAL McM 19 SEP 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

SIZE J2 | CODE IDENT NO. 80230 | 1014999
SCALE ~ | SHEET 1 OF 2

14999 REV LTR CA SHEET 1 OF 2

1014999

2710014999

			1026082 REV. -	
			1026081 REV. -	
			1026080 REV. -	
			1026076 REV. -	
			1026074 REV. -	
			1026066 REV. -	
		1017577	1017577	1017577
		1017576	1017576	1017576
		1021289 - 3	1021289 - 3	1021289 - 3
		1021289 - 4	1021289 - 4	1021289 - 4
		1017575	1017575	1017575
		NAS 1352 C04 LL6	NAS 1352 C04 LL6	NAS 1352 C04 LL6
		1021305	1021305	1021305
		1021299	1021299	1021299
		1021303 - 011	1021303 - 011	1021303 - 011
		1015500 - 081	1015500 - 081	1015500 - 081
		1015500 - 071	1015500 - 071	1015500 - 071
		1021302 - 011	1021302 - 011	1021302 - 011
		1021304 - 031	1021304 - 031	1021304 - 081
			1021108 - 021	
		1021255 - 041	1021255 - 041	1021255 - 041
			1026071 REV. B	
			1026075 REV. A	
			1026072 REV -	
			1026069 REV -	
			1026070 REV. -	
			1026079 REV. -	
			1026073 REV. -	
		1026138 REV -		
		1026117 REV -		
		1026139 REV A	1026100 REV B	1026044 REV -
		1026119 REV -		1026046 REV -
				1026045 REV -
		1026115 REV A		1026041 REV -
		1026117 REV -		1026043 REV -
		1026116 REV A		1026042 REV -
		1026118 REV -		
CONFIGURATION DASH NO.		-121	-111	-101
G & N SYSTEMS		123	122	121
REMARKS				

1014999 REV LTR CA SHEET 2 OF 2

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	BW	REPLACES REV BV WITHOUT CHANGE PER TDRR 32964	CHG NO.	14 FEB 67.	AF
	BY	REVISED PER TDRR 33931		15 JUN	
	BZ	REVISION STATUS CH'G'D.		17 JUL	JAC
	CA	REVISED PER TDRR 34589		18 SEP 67	GD

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
123	122	121	109	111	110	17	12	20	8	7	6	5					
								1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
								1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
								1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
								1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
								1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
								1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
								1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																	173
																	172
																	171
																	170
	1026082 REV. -												1	G&N/SCS END TO END RAMP TEST	SEE NOTE 12	55	169
	1026081 REV. -												1	G&N SCS INTERFACE TEST	SEE NOTE 12	55	168
	1026080 REV. -												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	167
	1026076 REV. -												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	166
	1026074 REV. -												1	AGC ALARMS & INTERRUPTS	SEE NOTE 12	55	165
	1026066 REV. -												1	G&N SCS COUNTDOWN TESTS	SEE NOTE 12	55	164
																	163
1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD. SPECIAL		40	158
NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP ASSY)		40	155
1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303-011						1	FRAME MACHINING ASSY		40	154
1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
1021304 - 031	1021304 - 031	1021304 - 031			1021304 - 011		1021304 - 041						1	COUPLING DISPLAY ASSEMBLY.	SEE NOTE 4	40	150
	1021108 - 021					1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
1021255 - 041	1021255 - 041	1021255 - 041		1021255-021	1021255 - 021		1021255-051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																	147
	1026071 REV. B						1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
	1026075 REV. A					1026034 REV C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
						1026014 REV -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
						1026015 REV B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
	1026072 REV -					1026012 REV B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
						1026011 REV A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
	1026069 REV -					1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
						1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
						1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
	1026070 REV. -					1026035 REV -	1026057 REV B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55.	137
						1026047 REV -							1	ACE-G&N 132 OPT DE-MEMORY	SEE NOTE 12	55	136
	1026079 REV. -					1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
	1026073 REV. -					1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
							1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
							1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
							1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
							1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
							1026060 REV B										129
1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
1026139 REV A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
								1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
						1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
		1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
						1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
1026117 REV -		1026043 REV -				1026003 REV -	1026026 REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
1026116 REV A		1026042 REV -				1026002 REV -	1026027 REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
								1008268					1	WIRE HARNESS "6"	SEE NOTE 9		116
						2018898							1	WIRING HARNESS			115
						1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
						1010705 - 8							1	CLAMP LOOP			113
						1010705 - 6							1	CLAMP LOOP			112
						1010705 - 5							1	CLAMP LOOP			111
						1010705 - 4							1	CLAMP LOOP			110

SEE NOTE 15

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

M I T
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN R A JONES DATE 4 OCT 65
CHECKED A.J.L. 5 OCT 65
APPROVAL D. HOAG
PER TDRR
CONTRACT
NASA APPROVAL
MIT APPROVAL W. KEIFFER 5 OCT 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

SIZE J2
CODE IDENT NO. 80230
1014999
SCALE —
SHEET 2 OF 2

1014883

NOTES:

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.

2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER INDICATES QUANTITY OF THAT PART.

3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.

4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 32, 37, 58, 67, 76, 106, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I.

5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.

6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE : NONE.

8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

9. REQUIRED FOR THERMAL VACUUM TEST.

10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

11. FLIGHT PROGRAM LISTED FOR G&N 123 IS NOT AUTHORIZED FOR THIS APPLICATION BY ENGINEERING DESIGN RELEASE OR REVISION.

12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.

13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.

14. THE PARTS LISTED IN COLUMN "B" OF TABLE II ARE TO BE REMOVED FROM THE ASSEMBLY LISTED IN COLUMN "A" PRIOR TO S/C INSTALLATION. THE PARTS REMOVED ARE TO BE RETAINED WITH THE G&N SYSTEM FOR REUSE IN THE EVENT OF REMOVAL OF FIND NO. 35 OR 76 FROM THE S/C.

15. THE CONFIGURATION OF THESE SYSTEMS WILL NO LONGER BE MAINTAINED.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G & N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

COLUMN A	COLUMN B		
FIND NO.	NOMENCLATURE OR DESCRIPTION	PART NUMBER	QTY
76	IMU MOUNTING PADS	1899960	1
	IMU MOUNTING PADS	1899959	1
	IMU MOUNTING PADS	1899958	1
	IMU MOUNTING PADS	1899957	1
35	PROTECTIVE PADS	1001465	1
	PROTECTIVE PADS	1001464	1
	PROTECTIVE PADS	1001461	1
	PROTECTIVE PADS	1001460	1

TABLE II (SEE NOTE 14)

	1000110-307	1000110-307	1000110-307
	1001591	1001591	1001591
	1000293	1000293	1000293
	1001469	1001469	1001469
	1001470	1001470	1001470
	1010400-5	1010400-5	1010400-5
	1007585-011	1007585-011	1007585-011
	2011788	2011788	2012691
	2012667	2012667	2012667
	2012699	2012699	2012699
	2012700	2012700	2012700
	2012719	2012719	2012719
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)
	1021407-011	1021407-011	1021407
	1899994-011	1899994-011	1899994-011
	AN960C516L	AN960C516L	AN960C516L
	1010728-001	1010728-001	1010728-001
	1899975	1899975	1899975
	1010827	1010827	1010827
	1899971	1899971	1899971
	1010828	1010828	1010828
	1899997-002	1899997-002	1899997-002
	1899997-001	1899997-001	1899997-001
	1899980	1899980	1899980
	1899978	1899978	1899978
	1899974	1899974	1899974
	1899950-341	1899950-331	1899950-291
	1010705-6	1010705-6	1010705-6
	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)
	1010400 (10)	1010400 (10)	1010400 (10)
	1015086-011	1015086-011	1015086-011
	2014764-021	2014764-021	2014764-021
	2014764-011	2014764-011	2014764-011
	1021373-041	1021373-041	1021373-03
	1014532	1014532	1014532
	1014502-021	1014502-021	1014502-021
	1015064-021	1015064-021	1015064-031
	1014628-021	1014628-021	1014628-021
	1015065-091	1015065-091	1015065-091
	1014664-031	1014664-031	1014664-031
	1008591	1008591	1008591
	1007220	1007220	1007220
	1007580-021	1007580-021	1007580-021
	1007579-021	1007579-021	1007579-021
	1007578-031	1007578-031	1007578-021
	1007593-011	1007593-011	1007593-011
	1007577-031	1007577-031	1007577-031
	1007576-021	1007576-021	1007576-03
	1007575-031	1007575-031	1007575-031
	1007574-031	1007574-031	1007574-03
	1007573-031	1007573-031	1007573-03
	1007572-041	1007572-041	1007572-041
	1007571-031	1007571-031	1007571-03
	1007570-041	1007570-041	1007570-031
	1001500-111	1001500-111	1001500-091
	1007700-051	1007700-051	1007700-051
	1004866-011	1004866-011	1004866-011
	1003563-051	1003563-051	1003563-051
	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)
	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)
	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)
	1004669	1004669	1004669
	1004670	1004670	1004670
	1003706-051	1003706-051	1003706-051
	1004730	1004730	1004730
	1003734	1003734	1003734
	1004728	1004728	1004728
	MS15795-808	MS15795-808	MS15795-808
	1010630-40	1010630-40	1010630-40
	1010630-39	1010630-39	1010630-39
	1004783	1004783	1004783
	1003730	1003730	1003730
	1003735	1003735	1003735
	MS16996-10	MS16996-10	MS16996-10
	MS16996-13	MS16996-13	MS16996-13
	1003700-071	1003700-051	1003700-051
OUTSTANDING ECP'S	642	474 (PARTIAL) 642	456, 474 (PARTIAL)
CONFIGURATION DASH NO.	-121	-111	-101
G & N SYSTEMS	123	122	121
REMARKS			

1014999 REV LTR C3 SHEET 1 OF 2

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	DW	REPLACES REV BV WITH CHANGE PER TDRR 32964	CHG NO	14 FEB 67	AF
—	BY	REVISED PER TDRR 33931	—	15	
	BZ	REVISED PER TDRR 34123		1 JUL 67	JAC
	CA	REVISED PER TDRR 34589			GD
	CB	REVISED PER TDRR 35015	—	10 NOV 67	JJJ

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
						1010400 9							1	CLAMP, HINGED LOOP			109
						1010400-4							2	CLAMP, HINGED LOOP			108
						2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
						2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4&5		106
													1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY. FLEX, IMU TO S/C		55	100
1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																	97
2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
						1011787		1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2012667	2012667	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
2012699	2012699	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS1352C06-8	NAS1352C06-8	NAS1352C06-8	NAS1352C06-8	NAS1352C06-8	NAS1352C06-8		4	SCREW, SOC HD CAP		65	90
1021407-011	1021407-011	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899904-011	1899904-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-341	1899950-331	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4&14	65	76
			1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
			1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
			1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
			1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
			1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
1021373-041	1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1023080-011	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-031	1007578-031	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	SHORTING PLUG		45	51
1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-041	1007570-041	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
			AN365D-440	AN365D-440		AN365D-440		AN365D-440	AN365D-440	AN365D-440	AN365D-440	AN365D-440	10	NUT, SPECIAL STUD		40	42
			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-111	1001500-111	1001500-091	1001500-021	1001500-051	1001500-081	1001500-011	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	SEE NOTE 14	35	35
1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
						1012136-011			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD1	1003553-011	1003495-011	1003459-MD2	1	AGC MAIN DSKY		5	31
MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80	MS35337-80	MS35337-80	MS35337-80	2	WASHER, LOCK		5	30
MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807	MS15795-807	MS15795-807	MS15795-807	2	WASHER, FLAT		5	29
MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26	MS16995-26	MS16995-26	MS16995-26	2	SCREW, SOC HD		5	28
1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD1	1003524 MD1	1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808			2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10			4	SCREW, SOC HD HEX		5	15
MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13			2	SCREW, SOC HD HEX		5	14
												1003457	1	AGC CONN COVER PLATE		5	13
												1003180	1	AGC TOE PLATE		5	12
											1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
											AN104608	AN104608	4	SCREW, HEX HD		5	10
											AN104606	AN104606	4	SCREW, HEX HD		5	9
											1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
											1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
											1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
											1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
											1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
											1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-071	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003700-071	1003565-031	1003700-011	1003700-011	1003496-011 MD1	1003186 MD2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
																	1
642	474 (PARTIAL) 642	498, 474 (PARTIAL)															
123	122	121	109	111	110	17	12	20	8	7	6	5					

SEE NOTE 15

NO 1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN R.A.JONES DATE 13 SEP 65
CHECKED A.J.L. 13 SEP 65
APPROVAL T.A. DHOAG 14 SEP 65
PER TDRR W.K.
CONTRACT
NASA APPROVAL
MIT APPROVAL 15 SEP 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

SIZE J2 CODE IDENT NO. 80230 1014999
SCALE ~ SHEET 1 OF 2

1014999

1014999 CB

2/1014999

101 4999

			1026091 REV A		
			1026090 REV A		
			1026089 REV [illegible]		
			1026082 REV. -		
			1026081 REV. -		
			1026080 REV. -		
			1026076 REV. -		
			1026074 REV. -		
			1026066 REV. -		
		1017577	1017577	1017577	
		1017576	1017576	1017576	
		1021289 - 3	1021289 - 3	1021289 - 3	
		1021289 - 4	1021289 - 4	1021289 - 4	
		1017575	1017575	1017575	
		NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6	
		1021305	1021305	1021305	
		1021299	1021299	1021299	
		1021303 - 011	1021303 - 011	1021303 - 011	
		1015500 - 081	1015500 - 081	1015500 - 081	
		1015500 - 071	1015500 - 071	1015500 - 071	
		1021302 - 011	1021302 - 011	1021302 - 011	
		1021304 - 031	1021304 - 031	1021304 - 031	
		[illegible] - 021	[illegible] - 021		
		1021255 - 041	1021255 - 041	1021255 - 041	
			1026071 REV. B		
			1026075 REV. A		
			1026072 REV -		
			1026069 REV -		
			1026070 REV. -		
			1026079 REV. -		
			1026073 REV. -		
		1026138 REV -			
		1026117 REV -			
		1026139 REV A	1026100 REV B	1026044 REV -	
		1026119 REV -		1026046 REV -	
				1026045 REV -	
		1026115 REV A		1026041 REV -	
		1026117 REV -		1026043 REV -	
		1026116 REV A		1026042 REV -	
		1026118 REV -			
CONFIGURATION DASH NO.		-121	-111	-101	-0
G & N SYSTEMS		123	122	121	1
REMARKS					

1014999 C

1/1014999

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	BW	REPLACES REV BV WITHOUT CHANGE PER TDPR 32964	CHG NO	14 FEB 67.	AF
	BY	REVISED PER TDRR 33931		13 JUN 67	
	BZ	REVISION STATUS CH'G'D.		17 JUL 67	JAC
	CA	REVISED PER TDRR 34589		18 SEP 67	GC
	CB	REVISED PER TDRR 35015		10 NOV 67	JJ

-121 123	-111 122	-101 121	-071 109	-091 111	-081 110	-051 17	-041 12	-061 20	-031 8	-021 7	-011 6	-000 5	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
								1026036 REV -					1	G&N SCS ATT CONTROL	SEE NOTE 13	55	180
								1026032 REV -					1	G&N OVERALL POLARITY TEST	SEE NOTE 13	55	179
								1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
								1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
								1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
								1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
								1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																	173
	1026091 REV A												1	LAUNCH LOAD	SEE NOTE 12	55	172
	1026090 REV A												1	MISSION LOAD	SEE NOTE 12	55	171
	1026083 REV H												1	FLIGHT READINESS SIMFLIGHT TEST	SEE NOTE 12	55	170
	1026082 REV. -												1	G&N/SCS END TO END RAMP TEST	SEE NOTE 12	55	169
	1026081 REV. -												1	G&N SCS INTERFACE TEST	SEE NOTE 12	55	168
	1026080 REV. -												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	167
	1026076 REV. -												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	166
	1026074 REV. -												1	AGC ALARMS & INTERRUPTS	SEE NOTE 12	55	165
	1026066 REV.-												1	G&N SCS COUNTDOWN TESTS	SEE NOTE 12	55	164
																	163
1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
1017576	1017576	1017576			1017576		1017576						1	RETAINER. SCREW (TOP)		40	161
1021289 - 3	1021289 - 3	1021289 - 3			1021289 - 3		1021289 - 3						6	SCREW, CAP SOC HD CAPTIVE		40	160
1021289 - 4	1021289 - 4	1021289 - 4			1021289 - 4		1021289 - 4						5	SCREW, CAP SOC HD CAPTIVE		40	159
1017575	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
NAS1352C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
1021305	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
1021299	1021299	1021299			1021299		1021299						1	PANEL (INSEP ASSY)		40	155
1021303 - 011	1021303 - 011	1021303 - 011			1021303 - 011		1021303 - 011						1	FRAME MACHINING ASSY		40	154
1015500 - 081	1015500 - 081	1015500 - 081			1015500 - 051								2	CDU ASSEMBLY		40	153
1015500 - 071	1015500 - 071	1015500 - 071			1015500 - 041		1015500 - 071 (5)						3	CDU ASSEMBLY		40	152
1021302 - 011	1021302 - 011	1021302 - 011			1021302 - 011		1021302 - 011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
1021304 - 031	1021304 - 031	1021304 - 031			1021304 - 011		1021304 - 041						1	COUPLING DISPLAY ASSEMBLY.	SEE NOTE 4	40	150
[illegible]8 - 021	1021108 - 021					1021106 - 021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
1021255 - 041	1021255 - 041	1021255 - 041		1021255 - 021	1021255 - 021		1021255 - 051	1021255 - 031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																	147
	1026071 REV. B						1026064 REV -						1	G&N, SCS INTERFACE TEST	SEE NOTE 12	55	146
	1026075 REV. A					1026034 REV C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
						1026014 REV -	1026055 REV A						1	G&N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
						1026015 REV B	1026053 REV -						1	G&N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
	1026072 REV -					1026012 REV B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
						1026011 REV A	1026054 REV -						1	G&N POLARITY TEST	SEE NOTE 12	55	141
	1026069 REV -					1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
						1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
						1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
	1026070 REV.-					1026035 REV -	1026057 REV B						1	G&N TO SC POLARITY TEST	SEE NOTE 12	55.	137
						1026047 REV -							1	ACE-G&N 132 OPT DE-MEMORY	SEE NOTE 12	55	136
	1026079 REV.-					1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
	1026073 REV. -					1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
							1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
							1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
							1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
							1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
							1026060 REV B										129
1026138 REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
1026117 REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
1026139 REV A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
1026119 REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
								1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
						1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
		1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
						1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G&N SCS ATT CONTROL INTERFACE TEST	SEE NOTE 10	55	120
1026117 REV -		1026043 REV -				1026003 REV -	1026026 REV -	1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
1026116 REV A		1026042 REV -				1026002 REV -	1026027 REV A	1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
								1008268					1	WIRE HARNESS '6'	SEE NOTE 9		116
						2018898							1	WIRING HARNESS			115
						1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
						1010705 - 8							1	CLAMP LOOP			113
						1010705 - 6							1	CLAMP LOOP			112
						1010705 - 5							1	CLAMP LOOP			111
						1010705 - 4							1	CLAMP LOOP			110

SEE NOTE 15

NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DRAWN R A JONES DATE 6 OCT 66
CHECKED A J L 9 OCT 66
APPROVAL D HOAG
PER TDRR
CONTRACT
NASA APPROVAL
MIT APPROVAL W KEPPER

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

SIZE J2
CODE IDENT NO. 80230
1014999
SCALE —
SHEET 2 OF 2

14999 REV LTR CE SHEET 2 OF 2

2/1014999

NOTES:

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 32, 37, 58, 67, 76, 106, 150 AND 151 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I.
5. CLAMP SIZES SELECTED TO CONFORM TO BUNDLE DIAMETERS. 2 CLAMPS, 1010400-4 (FIND NO. 108), ARE FURNISHED AS PART OF THE AIRBORNE VIBRATION ASSY FOR G & N 17.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE : NONE.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.
11.
12. K START TAPE ASSEMBLY FOR USE AT KSC. USE REVISION INDICATED.
13. K START TAPE ASSEMBLY FOR USE AT MSC. USE REVISION INDICATED.
14. THE PARTS LISTED IN COLUMN "B" OF TABLE II ARE TO BE REMOVED FROM THE ASSEMBLY LISTED IN COLUMN "A" PRIOR TO S/C INSTALLATION. THE PARTS REMOVED ARE TO BE RETAINED WITH THE G & N SYSTEM FOR REUSE IN THE EVENT OF REMOVAL OF FIND NO 35 OR 76 FROM THE S/C.
15. THE CONFIGURATION OF THESE SYSTEMS WILL NO LONGER BE MAINTAINED.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
151	CASE AND PANEL ASSY CDU	154 THRU 162
150	COUPLING DISPLAY ASSY	150 THRU 153
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

FIND NO.	NOMENCLATURE OR DESCRIPTION	PART NUMBER	QTY
76	IMU MOUNTING PADS	1899960	1
	IMU MOUNTING PADS	1899959	1
	IMU MOUNTING PADS	1899958	1
	IMU MOUNTING PADS	1899957	1
35	PROTECTIVE PADS	1001465	1
	PROTECTIVE PADS	1001464	1
	PROTECTIVE PADS	1001461	1
	PROTECTIVE PADS	1001460	1
COLUMN A	COLUMN B		

TABLE II (SEE NOTE 14)

		1000110-307	1000110-307	1000110-307	1000110
		1001591	1001591	1001591	1001591
		1000293	1000293	1000293	1000293
		1001469	1001469	1001469	1001469
		1001470	1001470	1001470	1001470
		1010400-5	1010400-5	1010400-5	1010400
		1007585-011	1007585-011	1007585-011	1007585
		2011788	2011788	2012691	2011788
		2012667	2012667	2012667	2011734
		2012699	2012699	2012699	2011786
		2012700	2012700	2012700	2011932
		2012719	2012719	2012719	2011960
		1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625
		1021407-011	1021407-011	1021407	1021407
		1899994-011	1899994-011	1899994-011	1899994
		AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960
		1010728-001	1010728-001	1010728-001	1010728
		1899975	1899975	1899975	1899975
		1010827	1010827	1010827	1010827
		1899971	1899971	1899971	1899971
		1010828	1010828	1010828	1010828
		1899997-002	1899997-002	1899997-002	1899997
		1899997-001	1899997-001	1899997-001	1899997
		1899980	1899980	1899980	1899980
		1899978	1899978	1899978	1899978
		1899974	1899974	1899974	1899974
		1899950-341	1899950-331	1899950-291	1899950
					1014609
		1010705-6	1010705-6	1010705-6	1010705
		1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705
					1010400
					1010400
		1010400 (10)	1010400 (10)	1010400 (10)	1010400
					1010400
					1010400
		1015086-011	1015086-011	1015086-011	1015086
		2014764-021	2014764-021	2014764-021	102300
		2014764-011	2014764-011	2014764-011	102300
		1021373-041	1021373-041	1021373-031	
		1014532	1014532	1014532	1014532
		1014502-021	1014502-021	1014502-021	1014502
		1015064-021	1015064-021	1015064-031	1015064
		1014628-021	1014628-021	1014628-021	1014628
		1015065-091	1015065-091	1015065-091	1015065
		1014664-031	1014664-031	1014664-031	1014664
		1008591	1008591	1008591	1008591
		1007220	1007220	1007220	[illegible]
		1007580-021	1007580-021	1007580-021	1007580
		1007579-021	1007579-021	1007579-021	1007579
		1007578-031	1007578-031	1007578-021	1007578
		1007593-011	1007593-011	1007593-011	1007593
		1007577-031	1007577-031	1007577-031	1007577
		1007576-021	1007576-021	1007576-031	1007576
		1007575-031	1007575-031	1007575-031	1007575
		1007574-031	1007574-031	1007574-031	1007574
		1007573-031	1007573-031	1007573-031	1007573
		1007572-041	1007572-041	1007572-041	1007572
		1007571-031	1007571-031	1007571-031	1007571
		1007570-041	1007570-041	1007570-031	1007570
					AN 365D
					1016889
					1015500
					1015500
					101753
					1016885
					[illegible]
		1001500-111	1001500-111	1001500-091	1001500
		1007700-051	1007700-051	1007700-051	
		1004866-011	1004866-011	1004866-011	1004866
		1003563-051	1003563-051	1003563-051	1003563
		MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337
		MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795
		MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995
		1004669	1004669	1004669	1004669
		1004670	1004670	1004670	1004670
		1003706-051	1003706-051	1003706-051	1003706
		1004730	1004730	1004730	1004730
		1003734	1003734	1003734	1003734
		1004728	1004728	1004728	1004728
		MS 15795-808	MS 15795-808	MS 15795-808	MS 15795
		1010630-40	1010630-40	1010630-40	1010630
		1010630-39	1010630-39	1010630-39	1010630
		1004783	1004783	1004783	1004783
		1003730	1003730	1003730	1003730
		1003735	1003735	1003735	1003735
		MS 16996-10	MS 16996-10	MS 16996-10	MS 16996
		MS 16996-13	MS 16996-13	MS 16996-13	MS 16996
		1003700-0[illegible]1	1003700-051	1003700-051	1003700
OUTSTANDING ECP'S		642			
CONFIGURATION DASH NO.		-121	-111	-101	-07
G & N SYSTEMS		123	122	121	10
REMARKS					

1014999	REV LTR CC	SHEET 1 OF 2

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG NO	DATE	APPROVED
	BW	REPLACES REV BV WITH CHANGE PER TDRR 32964		14 FEB 67	AF
—	BY	REVISED PER TDRR 33931	—	13 JUN 67	
	BZ	REVISED PER TDRR 34123		17 JUL 67	
	CA	REVISED PER TDRR 34589		18 SEP 67	
	CB	REVISED PER TDRR 35015	—	10 NOV 67	JJ
	CC	REVISED PER TDRR 35644		20 FEB 68	JK

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
123	122	121	109	111	110	17	12	20	8	7	6	5					
						1010400-9							1	CLAMP, HINGED LOOP			109
						1010400-4							2	CLAMP, HINGED LOOP			108
						2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
						2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4&5		106
													1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400-5	1010400-5	1010400-5	1010400-5	1010400-5	1010400-7	1010400-5	1010400-5	1010400-5	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
																	97
2011788	2011788	2012691	2011788	2011788	2011788	1011788	2012691	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
						1011787		1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2012667	2012667	2012667	2011734	2011734	2011734	1011734-001	1013010	1011734-001	1011734-000	1011734-000	1011734-000	1011734-000	1	SCT PRISM HOUSING ASSY		65	94
2012699	2012699	2012699	2011786	2011786	2011786	1011786-001	2012699	1013009	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2012700	2012700	2012700	2011932	2011932	2011932	1011932	2012700	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2012719	2012719	2012719	2011960	2011960	2011960	1011960-001	2012719	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS1352 C06-8	NAS1352 C06-8	NAS1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407-011	1021407-011	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899904-011	1899904-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	AN960C516L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-331	1899950-331	1899950-291	1899950-081	1899950-071	1899950-071	1899950-251	1899950-271	1899950-261	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4&14	65	76
			1014609	1014609	1014609				1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8 (2)	1010705-8 (2)	1010705-8 (2)	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
			1010400-8	1010400-8	1010400-8				1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
			1010400-7	1010400-7	1010400-7				1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400 (10)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400 (8)	1010400 (10)	1010400 (10)	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
			1010400-2	1010400-2	1010400-2				1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
			1010400-1	1010400-1	1010400-1				1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086-011	1015086-011	1015086-011	1015086-031	1015086-000	1015086-021	1015056-021	1015056-031	1014606-041	1014606-051	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
2014764-021	2014764-021	2014764-021	1023002-002	2014764-021	2014764-021		2014764-021						1	LONG HANDLE, G&N PANEL		50	66
2014764-011	2014764-011	2014764-011	1023002-001	2014764-011	2014764-011		2014764-011						1	SHORT HANDLE, G&N PANEL		50	65
1021373-041	1021373-041	1021373-031				1021373-011	1021373-021	1021373-011					1	APTPS		65	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1023080-011	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-021	1014502-021	1014502-021	1014502-011	1014502-021	1014502-021	1014502-011	1014502-021	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-031	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-021	1014628-021	1014628-021	1014628-011	1014628-021	1014628-021	1015095-011	1014628-021	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-091	1015065-091	1015065-091	1015065-041	1015065-091	1015065-101	1015065-051	1015065-081	1015065-031	1007059	1007059	SK44633	SK44633	1	D&C ELECTRONICS ASSY		50	59
1014664-031	1014664-031	1014664-031	1014664-011	1014664-021	1014664-021	1015053-011	1015053-021	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
																	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1007220	1007220	1007220	1008535	1008535	1007220	1008535	1007220	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-021	1007580-021	1007580-021	1007580-011	1007580-011	1007580-021	1007256-031	1007256-041	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
1007579-021	1007579-021	1007579-021	1007579-011	1007579-011	1007579-021	1007459-011	1007459-021	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-031	1007578-031	1007578-021	1007578-011	1007578-011	1007578-021	1007458-011	1007458-021	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007163	1007163	1	SHORTING PLUG		45	51
1007577-031	1007577-031	1007577-031	1007577-011	1007577-011	1007577-031	1007577-021	1007577-041	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-021	1007576-021	1007576-031	1007576-011	1007576-011	1007576-021	1007456-021	1007456-031	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-031	1007575-031	1007575-031	1007575-011	1007575-011	1007575-031	1007575-021	1007575-041	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-031	1007574-031	1007574-031	1007574-011	1007574-011	1007574-031	1007574-021	1007574-041	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-031	1007573-031	1007573-031	1007573-011	1007573-011	1007573-031	1007573-021	1007573-041	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-041	1007572-041	1007572-041	1007572-011	1007572-011	1007572-041	1007572-031	1007572-051	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-031	1007571-031	1007571-031	1007571-011	1007571-011	1007571-031	1007571-021	1007571-041	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-041	1007570-041	1007570-031	1007570-011	1007570-011	1007570-021	1007257-051	1007257-061	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
			AN365D-440	AN365D-440		AN365D-440		AN365D-440	AN365D-440	AN365D-440	AN365D-440	AN365D-440	10	NUT, SPECIAL STUD		40	42
			1016889	1016889		1016889		1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
			1015500-031	1015500-031		1015500-061 (3)							2	CDU ASSY		40	40
			1015500-021 (3)	1015500-021 (3)		1015500-021 (2)		1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
			1017538-021	1017538-021		1017538-021		1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
			1016885-021	1016885-021		1016885-031		1016908-021	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
			1016903-031	1016903-031		1016903-051		1016905-031	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-111	1001500-111	1001500-091	1001500-021	1001500-051	1001500-081	1001500-011	1001500-091	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY	SEE NOTE 14	35	35
1007700-051	1007700-051	1007700-051				1007700-011	1007700-041	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
						1012136-011			1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1004866-011	1004866-011	1004866-011	1004866-011	1004866-011	1005707-021	1005785-011	1005785-011	1005785-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003563-051	1003563-051	1003563-051	1003563-031	1003563-031	1003563-041	1003564-021	1003563-051	1003564-011	1003540-MD1	1003553-011	1003495-011	1003459-MD2	1	AGC MAIN DSKY		5	31
MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80 (4)	MS35337-80	MS35337-80	MS35337-80	MS35337-80	2	WASHER, LOCK		5	30
MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807 (4)	MS15795-807	MS15795-807	MS15795-807	MS15795-807	2	WASHER, FLAT		5	29
MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26 (4)	MS16995-26	MS16995-26	MS16995-26	MS16995-26	2	SCREW, SOC HD		5	28
1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004669	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-051	1003706-051	1003706-051	1003706-031	1003706-031	1003577-021	1003570-011	1003706-051	1003570-021	1003524 MD1	1003524 MD1	1003458 MD1	1003458 MD1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808	MS15795-808			2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
1004783	1004783	1004783	1004783	1004783	1004285	1004783	1004783	1004783	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10	MS16996-10			4	SCREW, SOC HD HEX		5	15
MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13	MS16996-13			2	SCREW, SOC HD HEX		5	14
												1003457	1	AGC CONN COVER PLATE		5	13
												1003180	1	AGC TOE PLATE		5	12
											1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
											AN104608	AN104608	4	SCREW, HEX HD		5	10
											AN104606	AN104606	4	SCREW, HEX HD		5	9
											1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
											1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
											1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
											1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
											1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
											1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-071	1003700-051	1003700-051	1003700-051	1003700-051	1003565-041	1003565-011	1003700-071	1003565-031	1003700-011	1003700-011	1003496-011 MD1	1003186 MD2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
																	1

SEE NOTE 15

NEXT ASSY	USED ON
ND1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN R.A. JONES DATE 13 SEP 65
CHECKED A.J.L. 13 SEP 65
APPROVAL T.A. DHOAG 14 SEP 65
PER TDRR W.K.
CONTRACT
NASA APPROVAL
MIT APPROVAL McM 15 SEP 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

SIZE J2
CODE IDENT NO. 80230
1014999
SCALE ~
SHEET 1 OF 2

16 15 14 13 12 11 10 9 8

101 4999

		1026091 REV B		
		1026090 REV B		
		1026089 REV J		
	1026082 REV A	1026082 REV. –		
	1026081 REV A	1026081 REV. –		
	1026092 REV –	1026080 REV. –		
	1026098 REV –	1026076 REV. –		
		1026074 REV. –		
		1026066 REV. –		
	1017577	1017577	1017577	
	1017576	1017576	1017576	
	1021289 - 3	1021289 - 3	1021289 - 3	
	1021289 - 4	1021289 - 4	1021289 - 4	
	1017575	1017575	1017575	
	NAS 1352 C04 LL6	NAS1352 C04 LL6	NAS1352 C04 LL6	
	1021305	1021305	1021305	
	1021299	1021299	1021299	
	1021303 - 011	1021303 - 011	1021303 - 011	
	1015500 - 081	1015500 - 081	1015500 - 081	
	1015500 - 071	1015500 - 071	1015500 - 071	
	1021302 - 011	1021302 - 011	1021302 - 011	
	1021304 - 031	1021304 - 031	1021304 - 031	
	1021108 - 021	1021108 - 021		
	1021255 - 041	1021255 - 041	1021255 - 041	
	1026071 REV C	1026071 REV. B		
	1026075 REV B	1026075 REV. A		
		1026072 REV –		
	1026069 REV A	1026069 REV –		
	1026070 REV A	1026070 REV. –		
		1026079 REV. –		
	1026073 REV A	1026073 REV. –		
	1026097 REV –			
	1026096 REV –			
	1026138 REV –			
	1026117 REV –			
	1026139 REV A	1026100 REV B	1026044 REV –	
	1026119 REV –		1026046 REV –	
			1026045 REV –	
	1026115 REV A		1026041 REV –	
	1026117 REV –		1026043 REV –	
	1026116 REV A		1026042 REV –	
	1026118 REV –			
CONFIGURATION DASH NO.		-121	-111	-101
G & N SYSTEMS		123	122	121
REMARKS				

1014999

16 15 14 13 12 11 10 9 8

1/1014999

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	BW	REPLACES REV BV WITHOUT CHANGE PER TDRR 32964	CHG NO	14 FEB 67	AF
	BY	REVISED PER TDRR 33931		15 JUN 67	
	BZ	REVISION STATUS CH'G'D.		17 JUL 67	JAC
	CA	REVISED PER TDRR 34589		18 SEP 67	GD
	CB	REVISED PER TDRR 35015		10 NOV 67	RWH
	CC	REVISED PER TDRR 35644		20 FEB 68	JRK

-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
123	122	121	109	111	110	17	12	20	8	7	6	5					
								1026036 REV -					1	G & N SCS ATT. CONTROL	SEE NOTE 13	55	180
								1026032 REV -					1	G & N OVERALL POLARITY TEST	SEE NOTE 13	55	179
								1026031 REV -					1	GIMBAL FRICTION TEST	SEE NOTE 13	55	178
								1026030 REV -					1	AGC ALARMS & INTERRUPTS	SEE NOTE 13	55	177
								1026029 REV -					1	E MEMORY ZERO & NIGHT WATCHMAN RESET SR	SEE NOTE 13	55	176
								1026037 REV -					1	AGC CLOCK ALIGNMENT	SEE NOTE 13	55	175
								1026039 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 13	55	174
																	173
	1026091 REV B												1	LAUNCH LOAD	SEE NOTE 12	55	172
	1026090 REV B												1	MISSION LOAD	SEE NOTE 12	55	171
	1026089 REV J												1	FLIGHT READINESS SIMFLIGHT TEST	SEE NOTE 12	55	170
[illegible] REV A	1026082 REV. -												1	G&N/SCS END TO END RAMP TEST	SEE NOTE 12	55	169
[illegible] REV A	1026081 REV. -												1	G & N SCS INTERFACE TEST	SEE NOTE 12	55	168
[illegible] REV -	1026080 REV. -												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	167
[illegible] REV -	1026076 REV. -												1	FLIGHT ROPE CONTROLLED MISSION PROFILE	SEE NOTE 12	55	166
	1026074 REV. -												1	AGC ALARMS & INTERRUPTS	SEE NOTE 12	55	165
	1026066 REV. -												1	G & N SCS COUNTDOWN TESTS	SEE NOTE 12	55	164
																	163
1017577	1017577	1017577			1017577		1017577						1	RETAINER, SCREW (BOT)		40	162
1017576	1017576	1017576			1017576		1017576						1	RETAINER, SCREW (TOP)		40	161
[illegible] -3	1021289 -3	1021289 -3			1021289 -3		1021289 -3						6	SCREW, CAP SOC HD CAPTIVE		40	160
[illegible] -4	1021289 -4	1021289 -4			1021289 -4		1021289 -4						5	SCREW, CAP SOC HD CAPTIVE		40	159
[illegible]	1017575	1017575			1017575		1017575						7	SCREW, CAP SOC HD, SPECIAL		40	158
[illegible] C04LL6	NAS1352C04LL6	NAS1352C04LL6			NAS1352C04LL6		NAS1352C04LL6						30	SCREW, CAP SOC HD		40	157
[illegible]	1021305	1021305			1021305		1021305						10	SEAL, CONNECTOR		40	156
[illegible]	1021299	1021299			1021299		1021299						1	PANEL (INSEP ASSY)		40	155
[illegible] 011	1021303 -011	1021303 -011			1021303 -011		1021303-011						1	FRAME MACHINING ASSY		40	154
[illegible]	1015500 -081	1015500 -081			1015500 -051								2	CDU ASSEMBLY		40	153
[illegible] 071	1015500 -071	1015500 -071			1015500 -041		1015500-071 (5)						3	CDU ASSEMBLY		40	152
[illegible] 011	1021302 -011	1021302 -011			1021302 -011		1021302-011						1	CASE AND PANEL ASSY, CDU	SEE NOTE 4	40	151
[illegible] 031	1021304 -031	1021304 -031			1021304 -011		1021304-041						1	COUPLING DISPLAY ASSEMBLY.	SEE NOTE 4	40	150
[illegible] 021	1021106 -021					1021106 -021							1	COMPUTER PROGRAM ASSEMBLY	SEE NOTE 11	55	149
[illegible] 041	1021255 -041	1021255 -041		1021255-021	1021255 -021		1021255-051	1021255-031					1	ANN PANEL AND EYEPIECE STOWAGE ASSY		62	148
																	147
[illegible]	1026071 REV. B						1026064 REV -						1	G & N, SCS INTERFACE TEST	SEE NOTE 12	55	146
[illegible] REV B	1026075 REV. A					1026034 REV C	1026056 REV A						1	FLIGHT ROPE CONTROLLED MISSION	SEE NOTE 12	55	145
						1026014 REV -	1026055 REV A						1	G & N ALARMS AND INTERRUPTS TEST	SEE NOTE 12	55	144
						1026015 REV B	1026053 REV -						1	G & N ATTITUDE CONTROL INTERFACE TEST	SEE NOTE 12	55	143
	1026072 REV -					1026012 REV B	1026052 REV -						1	AGC ERASABLE MEMORY ZEROING TAPE	SEE NOTE 12	55	142
						1026011 REV A	1026054 REV -						1	G & N POLARITY TEST	SEE NOTE 12	55	141
[illegible] REV A	1026069 REV -					1026024 REV -	1026049 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 12	55	140
						1026022 REV -	1026050 REV -						1	GYRO COMPASSING DATA LOAD	SEE NOTE 12	55	139
						1026021 REV -							1	K START CONTROL MISSION PROFILE	SEE NOTE 12	55	138
[illegible] REV A	1026070 REV. -					1026035 REV -	1026057 REV B						1	G & N TO SC POLARITY TEST	SEE NOTE 12	55.	137
						1026047 REV -							1	ACE-G&N 132 OPT DE-MEMORY	SEE NOTE 12	55	136
	1026079 REV. -					1026048 REV C	1026065 REV -						1	K START ASSY CONTROLLED MISSION PROFILE FLIGHT ROPE	SEE NOTE 12	55	135
[illegible] REV A	1026073 REV. -					1026051 REV -	1026061 REV A						1	TVC GIMBAL POSITION TEST	SEE NOTE 12	55	134
							1026058 REV -						1	GIMBAL POSITION TEST	SEE NOTE 12	55	133
[illegible] REV -							1026059 REV -						1	GIMBAL FRICTION TEST A REL 204	SEE NOTE 12	55	132
[illegible] REV -							1026062 REV A						1	AGC ALARM & INTERRUPT A REL 204	SEE NOTE 12	55	131
							1026063 REV -						1	AGC E-MEM ZEROING TAPE A REL 204	SEE NOTE 12	55	130
							1026060 REV B										129
[illegible] REV -													1	PIPA SCALE FACTOR TEST	SEE NOTE 10	55	128
[illegible] REV -													1	AGC ALARM & INTERRUPT TEST	SEE NOTE 10	55	127
[illegible] REV A	1026100 REV B	1026044 REV -				1026100 REV A	1026040 REV -						1	K START CONTROL SIMULATED FLIGHT	SEE NOTE 10	55	126
[illegible] REV -		1026046 REV -					1026020 REV -						1	GIMBAL FRICTION TEST	SEE NOTE 10	55	125
								1026019 REV -					1	K START CONTROL MISSION PROFILE	SEE NOTE 10	55	124
						1026013 REV C							1	GYRO INTEG AND MISSION PROFILE	SEE NOTE 10	55	123
		1026045 REV -				1026016 REV -	1026018 REV -	1026017 REV -					1	NIGHT WATCHMAN ALARM RESET TAPE	SEE NOTE 10	55	122
						1026009 REV -	1026038 REV -	1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
1026115 REV A		1026041 REV -				1026004 REV -	1026028 REV -	1026005 REV -					1	G & N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
1026117 REV -		1026043 REV -				1026003 REV -	1026026 REV -	1026008 REV -					1	G & N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
1026116 REV A		1026042 REV -				1026002 REV -	1026027 REV A	1026007 REV -					1	G & N POLARITY TEST	SEE NOTE 10	55	118
1026118 REV -						1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
								1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
						2018898							1	WIRING HARNESS			115
						1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
						1010705 - 8							1	CLAMP LOOP			113
						1010705 - 6							1	CLAMP LOOP			112
						1010705 - 5							1	CLAMP LOOP			111
						1010705 - 4							1	CLAMP LOOP			110

SEE NOTE 15

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± — DO NOT SCALE THIS DRAWING	M I T INSTRUMENTATION LAB CAMBRIDGE MASS
APPLICATION		MATERIAL —	DRAWN R A JONES DATE 4 OCT 65 CHECKED A. J. L 5 OCT 65 APPROVAL D HOAG PER TDRR WA CONTRACT
		APPROVAL	NASA APPROVAL MIT APPROVAL W KEIFFER 5 OCT 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

SIZE J2
CODE IDENT NO. 80230
1014999
SCALE —
SHEET 2 OF 2

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
C	REDRAWN AND UPGRADED TO CLASS "A" WITH CHANGES, PER TDRR 10374	6/23/64	WK.

ITEM	QUANTITY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION	NEXT ASSY (REF)	EQUIP CODE
73	1	1000110-307	SCREW, SOCKET HEAD		1015000	35
72	1	1001591	BRACKET ASSY, COOLANT			
71	1	1000293	CLAMP, COOLANT LINE			
70	1	1001470	HOSE, FLEX ASSY - IMU TO S/C			
69	1	1001469	HOSE, FLEX ASSY - S/C TO OPTICS BASE		1015000	35
68	4	1010630-38	SCREW, FLAT HD HEX SOCKET		1003186	05
67	4	AN104608	SCREW, HEX HEAD			
66	4	AN104606	SCREW, HEX HEAD			
65	4	1004272	BRACKET, COMPUTER END CONNECTOR, UPPER BRACE			
64	14	1010630-58	SCREW, FLAT HD HEX SOCKET			
63	1	1003457	AGC CONNECTOR COVER PLATE			
62	1	1003180	AGC TOE PLATE			
61	1	1003189	AGC END CONNECTOR ASSY			
60	1	1003197	G & N HARNESS TRAY ASSY			
59	1	1003184	MEMORY TRAY "B" ASSY			
58	1	1003187	LOGIC TRAY "A" ASSY		1003186	
57	1	1003540	AGC KEYBOARD & DISPLAY MAIN PANEL		1003400	
56	4	MS15795-308	WASHER, FLAT		1003524	
55	4	MS16995-9	SCREW, SOCKET HEAD			
54	2	MS35337-80	WASHER, LOCK			
53	2	MS15795-307	WASHER, FLAT			
52	2	MS16995-26	SCREW, SOCKET HEAD			
51	1	1004609	FLANGE			
50	1	1004607	BRACKET, ANGLE			
49	1	1003451	ALIGNMENT PIN ASSY			
48	4	MS35337-78	WASHER, LOCK		1003524	
47	1	1003524	AGC NAV DSKY ASSY	48, 49, 50, 51, 52, 53, 54, 55, 56	1003400	05
46	1	1007121	SIGNAL CONDITIONER ASSY		1015000	30
SEE NOTE 3 45	1	1011559	MAP & DATA VIEWER ASSY		1015000	15
44	1	1014532	OPTICS COVER ASSY		1014513	50
43	1	1014502	OPTICS SHROUD ASSY			
42	1	1015003	CONTROL ELECTRONICS ASSY			
41	1	1014526	IMU CONTROL PANEL ASSY			
40	1	1007059	D & C ELECTRONICS ASSY		1014513	50
39	1	1014578	G & N INDICATOR & CONTROL PANEL ASSY		1016903	40
38	1	1017538	CDU [illegible] ASSY		1016903	40
37	5	1015500	[illegible] ASSY		1016903	40
36	1	1016885	[illegible] ASSY			
35	1	AN345C10	NUT		1014606	56
34	1	1014609	BRACKET, CLAMP			
33	1	1010705-8	CLAMP, LOOP			
32	1	1010400-8	CLAMP, LOOP			
31	1	1010400-7	CLAMP, LOOP			
30	1	1010400-4	CLAMP, LOOP			
29	5	1010400-3	CLAMP, LOOP			
28	3	1010400-2	CLAMP, LOOP			
27	6	1010400-1	CLAMP, LOOP		1014606	
26	1	1014606	AGE HARNESS & PSA END CONNECTOR ASSY	27, 28, 29, 30, 31, 32, 33, 34, 35	1015000	56
25	1	1008135	PSA TOE CAP		1007100	45
24	1	1007160	POWER DIODE & SIGNAL COND ELEC ASSY - TRAY #10			
23	1	1007159	OPTICAL ELECTRONICS ASSY - TRAY #9			
22	1	1007158	OPTICAL ELECTRONICS ASSY - TRAY #8			
21	1	1007157	MISC ELECTRONICS ASSY - TRAY #7			
20	1	1007156	CDU & POWER SUPPLY ELECTRONICS ASSY - TRAY #6			
19	1	1007155	CDU & GYRO ACCEL ELECTRONICS ASSY - TRAY #5			
18	1	1007154	GYRO ACCELEROMETER ELECTRONICS ASSY - TRAY #4			
17	1	1007153	GYRO ACCELEROMETER ELECTRONICS ASSY - TRAY #3			
16	1	1007152	POWER SUPPLY ELECTRONICS ASSY - TRAY #2			
15	1	1007151	GIMBAL SERVO ELECTRONICS ASSY - TRAY #1		1007100	45
14	1	1000201	INERTIAL MEASUREMENT UNIT ASSY		1015000	35
13	1	1011734	HOUSING, SCT PRISM, ASSY OF		1011000	65
12	1	1011786	SEXTANT EYEPIECE ASSY			
11	1	1011788	LONG EYE RELIEF EYEPIECE ASSY (SCT)			
10	1	1011787	LONG EYE RELIEF EYEPIECE ASSY (SXT)			
9	1	1011932	EYEPIECE (SXT), ASSY OF			
8	1	1011960	SCT EYEPIECE ASSY		1011000	
7	2	1899970	MOUNT-RESILIENT, FRONT ASSY (INSEP)		1899950	
6	1	1899997-002	SEAL-BELLOWS			
5	1	1899997-001	SEAL-BELLOWS			
4	2	1899980	BOLT-HEX HEAD			
3	1	1899978	SNUBBER, FRONT R.H. ASSY (INSEP)			
2	1	1899974	SNUBBER, FRONT L.H. ASSY (INSEP)		1899950	
1	1	1899950-021	NAVIGATION BASE & OPTICAL UNIT ASSY	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	1015000	65

NOTES:

1. THIS DRAWING DEFINES A TOTAL G&N SYSTEM IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED PIECES OR SEPARATE PARTS
2. EFFECTIVITY TO BE DETERMINED FROM SYSTEM IDENTIFICATION DATA LIST (SIDL), MIT REPORT E-1113
3. MAP & DATA VIEWER ASSY 1011559 INCLUDES ONE MAGAZINE ASSY 1011420. A MAXIMUM OF FOUR ADDITIONAL MAGAZINES WILL BE USED PER MISSION REQUIREMENTS.

Ⓒ REPLACES REV. B WITH CHANGE

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN C.T. Sharp DATE
CHECKED
APPROVAL T.J. Anderson 6/10/64
APPROVAL J. [illegible] 6/19/64
NASA APPROVAL
MIT APPROVAL 23 Jun 64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
(BLOCK I)

CODE IDENT NO
SIZE E
NASA DRAWING NO. 1014999
SCALE —
WT —
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
C	REDRAWN AND UPGRADED TO CLASS "A" WITH CHANGES PER TDRR 10374	4/23/64	WK
D	REPLACED WITH CHANGE BY REV "E" PER TDRR 15905	2/?/65	WK

SEE NOTE 3

ITEM	QUANTITY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION	NEXT ASSY (REF)	EQUIP CODE
73	1	1000110-307	SCREW, SOCKET HEAD		1015000	35
72	1	1001591	BRACKET ASSY, COOLANT			
71	1	1000293	CLAMP, COOLANT LINE			
70	1	1001470	HOSE, FLEX ASSY - IMU TO S/C			
69	1	1001469	HOSE, FLEX ASSY - S/C TO OPTICS BASE		1015000	35
68	4	1010630-38	SCREW, FLAT HD HEX SOCKET		1003186	05
67	4	AN104608	SCREW, HEX HEAD			
66	4	AN104606	SCREW, HEX HEAD			
65	4	1004272	BRACKET, COMPUTER END CONNECTOR, UPPER BRACE			
64	14	1010630-58	SCREW, FLAT HD HEX SOCKET			
63	1	1003457	AGC CONNECTOR COVER PLATE			
62	1	1003180	AGC TOE PLATE			
61	1	1003189	AGC END CONNECTOR ASSY			
60	1	1003197	G & N HARNESS TRAY ASSY			
59	1	1003184	MEMORY TRAY "B" ASSY			
58	1	1003187	LOGIC TRAY "A" ASSY		1003186	
57	1	1003540	AGC KEYBOARD & DISPLAY MAIN PANEL		1003400	
56	4	MS15795-308	WASHER, FLAT		1003524	
55	4	MS16995-9	SCREW, SOCKET HEAD			
54	2	MS35337-80	WASHER, LOCK			
53	2	MS15795-307	WASHER, FLAT			
52	2	MS16995-26	SCREW, SOCKET HEAD			
51	1	1004609	FLANGE			
50	1	1004607	BRACKET, ANGLE			
49	1	1003451	ALIGNMENT PIN ASSY			
48	4	MS35337-78	WASHER, LOCK		1003524	
47	1	1003524	AGC NAV DSKY ASSY	48, 49, 50, 51, 52, 53, 54, 55, 56	1003400	05
46	1	1007121	SIGNAL CONDITIONER ASSY		1015000	30
45	1	1011559	MAP & DATA VIEWER ASSY		1015000	15
44	1	1014532	OPTICS COVER ASSY		1014513	50
43	1	1014502	OPTICS SHROUD ASSY			
42	1	1015003	CONTROL ELECTRONICS ASSY			
41	1	1014526	IMU CONTROL PANEL ASSY			
40	1	1007059	D & C ELECTRONICS ASSY			
39	1	1014578	G & N INDICATOR & CONTROL PANEL ASSY		1014513	50
38	1	1017538	CDU PANEL ASSY		1016903	40
37	5	1015500	CDU ASSY		1016903	40
36	1	1016885	CDU FRAME ASSY		1016903	40
35	1	AN345C10	NUT		1014606	56
34	1	1014609	BRACKET, CLAMP			
33	1	1010705-8	CLAMP, LOOP			
32	1	1010400-8	CLAMP, LOOP			
31	1	1010400-7	CLAMP, LOOP			
30	1	1010400-4	CLAMP, LOOP			
29	5	1010400-3	CLAMP, LOOP			
28	3	1010400-2	CLAMP, LOOP			
27	6	1010400-1	CLAMP, LOOP		1014606	
26	1	1014606	AGE HARNESS & PSA END CONNECTOR ASSY	27, 28, 29, 30, 31, 32, 33, 34, 35	1015000	56
26	1	1008135	PSA TOE CAP		1007100	45
24	1	1007160	POWER DIODE & SIGNAL COND ELEC ASSY - TRAY #10			
23	1	1007159	OPTICAL ELECTRONICS ASSY - TRAY #9			
22	1	1007158	OPTICAL ELECTRONICS ASSY - TRAY #8			
21	1	1007157	MISC ELECTRONICS ASSY - TRAY #7			
20	1	1007156	CDU & POWER SUPPLY ELECTRONICS ASSY - TRAY #6			
19	1	1007155	CDU & GYRO ACCEL ELECTRONICS ASSY - TRAY #5			
18	1	1007154	GYRO ACCELEROMETER ELECTRONICS ASSY - TRAY #4			
17	1	1007153	GYRO ACCELEROMETER ELECTRONICS ASSY - TRAY #3			
16	1	1007152	POWER SUPPLY ELECTRONICS ASSY - TRAY #2			
15	1	1007151	GIMBAL SERVO ELECTRONICS ASSY - TRAY #1		1007100	45
14	1	1000201	INERTIAL MEASUREMENT UNIT ASSY		1015000	35
13	1	1011734	HOUSING, SCT PRISM, ASSY OF		1011000	65
12	1	1011786	SEXTANT EYEPIECE ASSY			
11	1	1011788	LONG EYE RELIEF EYEPIECE ASSY (SCT)			
10	1	1011787	LONG EYE RELIEF EYEPIECE ASSY (SXT)			
9	1	1011932	EYEPIECE (SXT), ASSY OF			
8	1	1011960	SCT EYEPIECE ASSY		1011000	
7	2	1899970	MOUNT-RESILIENT, FRONT ASSY (INSEP)		1899950	
6	1	1899997-002	SEAL-BELLOWS			
5	1	1899997-001	SEAL-BELLOWS			
4	2	1899980	BOLT-HEX HEAD			
3	1	1899978	SNUBBER, FRONT R.H. ASSY (INSEP)			
2	1	1899974	SNUBBER, FRONT L.H. ASSY (INSEP)		1899950	
1	1	1899950-021	NAVIGATION BASE & OPTICAL UNIT ASSY	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	1015000	65

NOTES:

1. THIS DRAWING DEFINES A TOTAL G&N SYSTEM IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED PIECES OR SEPARATE PARTS
2. EFFECTIVITY TO BE DETERMINED FROM SYSTEM IDENTIFICATION DATA LIST (SIDL), MIT REPORT E-1113
3. MAP & DATA VIEWER ASSY 1011559 INCLUDES ONE MAGAZINE ASSY 1011420. A MAXIMUM OF FOUR ADDITIONAL MAGAZINES WILL BE USED PER MISSION REQUIREMENTS.

Ⓓ REPLACED WITH CHANGE BY REV. E

Ⓒ REPLACES REV. B WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO CONTRACT

DRAWN C.T. Sharp DATE
CHECKED
APPROVAL T.J. Anderson 6/10/64
APPROVAL 6/19/64
NASA APPROVAL
MIT APPROVAL 23 Jun 64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
(BLOCK I)

CODE IDENT NO. SIZE E NASA DRAWING NO. 1014999

SCALE — WT — SHEET 1 OF 1

MASTER

SYM	DESCRIPTION	DATE	APPROVAL
E	COMPLETELY REVISED & REDRAWN TLRR 15:05	2/2/65	WK.

							←				1003457	1	AGC CONNECTOR COVER PLATE	08	79	
							←				1008180	1	AGC TOE PLATE	05	78	
←				1007585								1	TRACKER, X&Y ASSY	45	77	
←											1000110-907	1	SCREW, SOCKET HEAD	35	76	
←											1001591	1	BRACKET ASSY, COOLANT		75	
←											1000293	1	CLAMP, COOLANT LINE		74	
←											1001469	1	HOSE ASSY-FLEX, S/C TO OPTICS		73	
←											1001470	1	HOSE ASSY, FLEX, IMU TO S/C	35	72	
←			1003700-021	←		1003700-011						1	APOLLO GUIDANCE COMPUTER	05	71	
							←				1010630-38	4	SCREW, FLAT HD HEX SOC		70	
							←				AN104608	4	SCREW, HEX HD		69	
							←				AN104606	4	SCREW, HEX HD		68	
							←				1004272	4	BRKT, COMP END CONN, UPPER BRACE		67	
							←				1010630-58	14	SCREW, FLAT HD HEX SOC		66	
							←	1003466	←		1003189	1	AGC END CONNECTOR ASSY		65	
							←				1003197	1	G&N HARNESS TRAY ASSY		64	
							←				1003184	1	MEMORY TRAY "B" ASSY		63	
							←				1003187	1	LOGIC TRAY "A" ASSY		62	
←				1003707	←	1003484	←	1003540	←		1003459	1	AGC DSKY, MAIN PANEL		61	
←				MS15795-807								4	WASHER, FLAT		60	
←				MS35337-80								4	WASHER LOCK		59	
←				MS16995-26								4	SCREW, SOCKET HEAD		58	
					←						MS15795-307	2	WASHER FLAT		57	
					←						MS35337-80	2	WASHER, LOCK		56	
					←						MS16995-26	2	SCREW, SOCKET HEAD		55	
←											1004609	1	FLANGE		54	
←											1004607	1	BRACKET, ANGLE		53	
					←						MS15795-308	4	WASHER, FLAT		52	
					←						MS16995-9	4	SCREW, SOCKET HEAD		51	
					←						MS35337-78	4	WASHER, LOCK		50	
					←						1003451	1	ALIGNMENT PIN ASSY		49	
←				1003706	←	1003551	←	1003524	←		1003458	1	AGC NAV DSKY	05	48	SEE NOTE 2
									←		1007121	1	SIGNAL CONDITIONER ASSY	30	47	
←				1023000	←	1012221-011	←		1012136	←	1011559	1	MAP AND DATA VIEWER	15	46	SEE NOTE 3
←											1014532	1	OPTICS COVER ASSY	50	45	
←											1014502-011	1	OPTICS SHROUD ASSY		44	
←				1015064-021	←	1015064-011	←				1015003	1	CONTROL ELECTRONICS ASSY		43	
←				1014628-011	←	1015095-011	←				1014526-011	1	IMU CONTROL PANEL ASSY		42	
←				1015065-021	←	1015065-011	←		1007069	←	5K44633	1	D&C ELECTRONICS ASSY		41	
←				1014664-011	←	1015053-011	←				1014578-011	1	G&N INDICATOR & CONTROL PANEL ASSY	50	40	
←						1017538-021	←				1017538-011	1	CDU PANEL ASSY	40	39	
←						1015500-021	←				1015500-011	5	CDU ASSY	40	38	
←						1016885-021	1016908-011	←			1016885-011	1	CDU FRAME ASSY	40	37	
←											1014609	1	BRACKET, CLAMP	56	36	
←				1010705-8								2	CLAMP, LOOP		35	
					←						1010705-8	1	CLAMP, LOOP		34	
←											1010400-8	1	CLAMP, HINGED LOOP		33	
←											1010400-7	1			32	
←											1010400-3	3			31	
←											1010400-2	1			30	
←											1010400-1	5	CLAMP, HINGED LOOP		29	
←				1015086	←	1015056-011	←				1014606	1	AGE HARNESS & PSA END CONNECTOR ASSY	56	28	SEE NOTE 2
←											1008591	6	SCREW, REWORKED	45	27	
←						1008535	←				1008135	1	PSA TOE CAP		26	
←				1007580-011	←	1007460-011	1021230-011	←			1007160	1	PSA-TRAY #10		25	
←				1007579-011	←	1007459-011	1021229-011	1007179	←		1007159	1	PSA-TRAY # 9		24	
←				1007578-011	←	1007458-011	1021228-011	1007178	←		1007158	1	PSA-TRAY # 8		23	
←				1007577-011	←	1007577-021	1021227-011	1007177	←		1007157	1	PSA-TRAY # 7		22	
←				1007576-011	←	1007456-011	1021226-011	1007176	←		1007156	1	PSA-TRAY # 6		21	
←				1007575-011	←	1007575-021	1021225-011	1007175	←		1007155	1	PSA-TRAY # 5		20	
←				1007574-011	←	1007574-021	1021224-011	←			1007154	1	PSA-TRAY # 4		19	
←				1007573-011	←	1007573-021	1021223-011	←			1007153	1	PSA-TRAY # 3		18	
←				1007572-011	←	1007572-021	1021222-011	←			1007152	1	PSA-TRAY # 2		17	
←				1007571-011	←	1007591-021	1021221-011	←			1007151	1	PSA-TRAY # 1	45	16	
←	1001500-031	←		1001500-021	←	1001500-011	1001479	←			1000201	1	INERTIAL MEASUREMENT UNIT ASSY	35	15	
←				2011734	←						1011734	1	HOUSING, SCT PRISM ASSY OF	65	14	
←				2011786	←						1011786	1	MIRROR HOUSING ASSY (SXT EYEPIECE)		13	
←				2011788	←						1011788	1	L.E.R. EYEPIECE ASSY (SCT)		12	
←				2011787	←						1011787	1	L.E.R. EYEPIECE ASSY (SXT)		11	
←				2011932	←						1011932	1	EYEPIECE (SXT) ASSY OF		10	
←				2011960	←						1011960	1	SCT EYEPIECE ASSY		9	
←											1899971	6	SPRING, SEAL RETAINING		8	
←						1010828	←				1899970	2	MOUNT, RESILIENT, FRONT ASSY		7	
←										1899977-002	1899954-002	1	SEAL BELLOWS		6	
←										1899977-001	1899954-001	1	SEAL BELLOWS		5	
←											1899980	2	BOLT, HEX HEAD		4	
←											1899978	1	SNUBBER, FRONT RH ASSY		3	
←											1899974	1	SNUBBER, FRONT, LH ASSY		2	
←				1899950-041	←	1899950-081	←			1899950-021	1899950-011	1	NAV BASE & OPTICAL UNIT	65	1	SEE NOTE 2
-111	-111	-071	-071	-081	-051	-041	-061	-031	-021	-011	-000	QUANTITY	NOMENCLATURE OR DESCRIPTION	EQUIP CODE	LINE	
SERIES 100					SERIES "50"		SERIES "0"									
G&N SYSTEM CONFIGURATION																
← 122	121	109	111	110	17	12	20	8	7	6	5	← serial no				

NOTES:

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS (BLOCK I) IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED PIECES OR SEPARATE PARTS
2. PARTS REMOVED FROM ITEMS 1, 28 & 48 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
3. MAP & DATA VIEWER ASSY, ITEM 46, INCLUDES ONE MAGAZINE ASSY. (SEE M&DV DWG FOR MAGAZINE PART NO.). A MAXIMUM OF FOUR ADDITIONAL MAGAZINES WILL BE USED PER MISSION REQUIREMENTS.
4. THIS DRAWING FOR REFERENCE ONLY

ITEM	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
48	AGC NAV DSKY	49 THRU 60
28	AGE HARNESS & PSA END CONNECTOR ASSY	29 THRU 36
1	NAV BASE & OPTICAL UNIT ASSY	2 THRU 14

TABLE I (SEE NOTE 2)

Ⓔ REPLACES REV. D WITH CHANGE

MASTER

NEXT ASSY	USED ON
1019999	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN T. ANDERSON DATE 6-10-64
CHECKED
APPROVAL JZ 2/2/65
APPROVAL
NASA APPROVAL 2/4/65
MIT APPROVAL W Kupfer 2/1/65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. | SIZE | NASA DRAWING NO. 1014999
SCALE | WT | SHEET 1 OF 1

SYM	DESCRIPTION	DATE	APPR
E	COMPLETELY REVISED & REDRAWN ECR 15905	2/4/65	L.A.

LINE	-111	-111	-071	-071	-081	-051	-041	-061	-031	-021	-011	-000	QUANTITY	NOMENCLATURE OR DESCRIPTION	EQUIP CODE	LINE	
79								←				1003457	1	AGC CONNECTOR COVER PLATE	05	79	
78								←				1008180	1	AGC TOE PLATE	05	78	
77	←				1007585								1	TRACKER, X&Y ASSY	45	77	
76	←											1000110-307	1	SCREW, SOCKET HEAD	35	76	
75	←											1001591	1	BRACKET ASSY, COOLANT	↓	75	
74	←											1000293	1	CLAMP, COOLANT LINE	↓	74	
73	←											1001469	1	HOSE ASSY-FLEX, S/C TO OPTICS	↓	73	
72	←											1001470	1	HOSE ASSY, FLEX, IMU TO S/C	35	72	
71	←			1003700-021	←		1003700-011						1	APOLLO GUIDANCE COMPUTER	05	71	
70								←				1010630-38	4	SCREW, FLAT HD HEX SOC	↓	70	
69								←				AN104608	4	SCREW, HEX HD	↓	69	
68								←				AN104606	4	SCREW, HEX HD	↓	68	
67								←				1004272	4	BRKT, COMP END CONN, UPPER BRACE	↓	67	
66								←				1010630-58	14	SCREW, FLAT HD HEX SOC	↓	66	
65								←	1003466	←		1003189	1	AGC END CONNECTOR ASSY	↓	65	
64								←				1003197	1	G&N HARNESS TRAY ASSY	↓	64	
63								←				1003184	1	MEMORY TRAY "B" ASSY	↓	63	
62								←				1003187	1	LOGIC TRAY "A" ASSY	↓	62	
61	←				1003707	←	1003484	←	1003540	←		1003459	1	AGC DSKY, MAIN PANEL	↓	61	
60	←				MS15795-807								4	WASHER, FLAT	↓	60	
59	←				MS35337-80								4	WASHER, LOCK	↓	59	
58	←				MS16995-26								4	SCREW, SOCKET HEAD	↓	58	
57						←						MS15795-307	2	WASHER, FLAT	↓	57	
56						←						MS35337-80	2	WASHER, LOCK	↓	56	
55						←						MS16995-26	2	SCREW, SOCKET HEAD	↓	55	
54	←											1004609	1	FLANGE	↓	54	
53	←											1004607	1	BRACKET, ANGLE	↓	53	
52						←						MS15795-308	4	WASHER, FLAT	↓	52	
51						←						MS16995-9	4	SCREW, SOCKET HEAD	↓	51	
50						←						MS35337-78	4	WASHER, LOCK	↓	50	
49						←						1003451	1	ALIGNMENT PIN ASSY	↓	49	
48	←				1003706	←	1003551	←	1003524	←		1003458	1	AGC NAV DSKY	05	48	SEE NOTE 2
47										←		1007121	1	SIGNAL CONDITIONER ASSY	30	47	
46	←				1023000	←	1012221-011	←		1012136	←	1011559	1	MAP AND DATA VIEWER	15	46	SEE NOTE 3
45	←											1014532	1	OPTICS COVER ASSY	50	45	
44	←											1014502-011	1	OPTICS SHROUD ASSY	↓	44	
43	←				1015064-021	←	1015064-011	←				1015003	1	CONTROL ELECTRONICS ASSY	↓	43	
42	←				1014628-011	←	1015095-011	←				1014526-011	1	IMU CONTROL PANEL ASSY	↓	42	
41	←				1015065-021	←	1015065-011	←		1007069	←	SK44633	1	D&C ELECTRONICS ASSY	↓	41	
40	←				1014664-011	←	1015053-011	←				1014578-011	1	G&N INDICATOR & CONTROL PANEL ASSY	50	40	
39	←						1017538-021	←				1017538-011	1	CDU PANEL ASSY	40	39	
38	←						1015500-021	←				1015500-011	5	CDU ASSY	40	38	
37	←						1016885-021	1016908-011	←			1016885-011	1	CDU FRAME ASSY	40	37	
36	←											1014609	1	BRACKET, CLAMP	56	36	
35	←				1010705-8								2	CLAMP, LOOP	↓	35	
34						←						1010705-8	1	CLAMP, LOOP	↓	34	
33	←											1010400-8	1	CLAMP, HINGED LOOP	↓	33	
32	←											1010400-7	1	↕	↓	32	
31	←											1010400-3	3	↕	↓	31	
30	←											1010400-2	1	↕	↓	30	
29	←											1010400-1	5	CLAMP, HINGED LOOP	↓	29	
28	←				1015086	←	1015056-011	←				1014606	1	AGE HARNESS & PSA END CONNECTOR ASSY	56	28	SEE NOTE 2
27	←											1008591	6	SCREW, REWORKED	45	27	
26	←						1008535	←				1008135	1	PSA TOECAP	↓	26	
25	←				1007580-011	←	1007460-011	1021230-011	←			1007160	1	PSA-TRAY #10	↓	25	
24	←				1007579-011	←	1007459-011	1021229-011	1007179	←		1007159	1	PSA-TRAY # 9	↓	24	
23	←				1007578-011	←	1007458-011	1021228-011	1007178	←		1007158	1	PSA-TRAY # 8	↓	23	
22	←				1007577-011	←	1007577-021	1021227-011	1007177	←		1007157	1	PSA-TRAY # 7	↓	22	
21	←				1007576-011	←	1007456-011	1021226-011	1007176	←		1007156	1	PSA-TRAY # 6	↓	21	
20	←				1007575-011	←	1007575-021	1021225-011	1007175	←		1007155	1	PSA-TRAY # 5	↓	20	
19	←				1007574-011	←	1007574-021	1021224-011	←			1007154	1	PSA-TRAY # 4	↓	19	
18	←				1007573-011	←	1007573-021	1021223-011	←			1007153	1	PSA-TRAY # 3	↓	18	
17	←				1007572-011	←	1007572-021	1021222-011	←			1007152	1	PSA-TRAY # 2	↓	17	
16	←				1007571-011	←	1007571-021	1021221-011	←			1007151	1	PSA-TRAY # 1	45	16	
15	←	1001500-031	←		1001500-021	←	1001500-011	1001479	←			1000201	1	INERTIAL MEASUREMENT UNIT ASSY	35	15	
14	←				2011734	←						1011734	1	HOUSING, SCT PRISM ASSY OF	65	14	
13	←				2011786	←						1011786	1	MIRROR HOUSING ASSY (SXT EYEPIECE)	↓	13	
12	←				2011788	←						1011788	1	L.E.R. EYEPIECE ASSY (SCT)	↓	12	
11	←				2011787	←						1011787	1	L.E.R. EYEPIECE ASSY (SXT)	↓	11	
10	←				2011932	←						1011932	1	EYEPIECE (SXT) ASSY OF	↓	10	
9	←				2011960	←						1011960	1	SCT EYEPIECE ASSY	↓	9	
8	←											1899971	6	SPRING, SEAL RETAINING	↓	8	
7	←						1010828	←				1899970	2	MOUNT, RESILIENT, FRONT ASSY	↓	7	
6	←										1899977-002	1899954-002	1	SEAL, BELLOWS	↓	6	
5	←										1899977-001	1899954-001	1	SEAL, BELLOWS	↓	5	
4	←											1899980	2	BOLT, HEX HEAD	↓	4	
3	←											1899978	1	SNUBBER, FRONT, RH ASSY	↓	3	
2	←											1899974	1	SNUBBER, FRONT, LH ASSY	↓	2	
1	←				1899950-041	←	1899950-031	←			1899950-021	1899950-011	1	NAV BASE & OPTICAL UNIT	65	1	SEE NOTE 2
LINE	SERIES 100					SERIES "50"		SERIES "0"									
	G&N SYSTEM CONFIGURATION																
	← 122	121	09	111	110	17	12	20	8	7	6	5 ← serial no					

Ⓔ REPLACES REV. D WITH CHANGE

NOTES:
1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS (BLOCK I) IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED PIECES OR SEPARATE PARTS
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4. THIS DRAWING FOR REFERENCE ONLY

ITEM	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
48	AGC NAV DSKY	49 THRU 60
28	AGE HARNESS & PSA END CONNECTOR ASSY	29 THRU 36
1	NAV BASE & OPTICAL UNIT ASSY	2 THRU 14

TABLE I (SEE NOTE 2)

NEXT ASSY	USED ON
1019999	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG NO CONTRACT
DRAWN J. ANDERSON DATE 6-10-64
CHECKED
APPROVAL J. Z. 2/2/65
APPROVAL
NASA APPROVAL 2/4/65
MIT APPROVAL W Kupfer 2/4/65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. SIZE NASA DRAWING NO. 1014999
SCALE WT SHEET 1 OF

MASTER

REVISIONS SYM	DESCRIPTION	DATE	APPROVAL
E	COMPLETELY REVISED & REDRAWN TDRR 15905	2/2/65	W.H.
F	REVISED PER TDRR 19303	9 JUNE 1965	MBM

-111	-111	-071	-071	-081	-051	-041	-061	-031	-021	-011	-009	QUANTITY	NOMENCLATURE OR DESCRIPTION	EQUIP CODE	LINE	
←				1023040-011	←		1023014-011					1	CONDITION ANNUNCIATOR ASSY	50	80	
							←				1003457	1	AGC CONNECTOR COVER PLATE	08	79	
							←				1008180	1	AGC TOE PLATE	05	78	
←				1007585								1	TRACKER, X&Y ASSY	45	77	
←											1000110-307	1	SCREW, SOCKET HEAD	35	76	
←											1001591	1	BRACKET ASSY, COOLANT		75	
←											1000293	1	CLAMP, COOLANT LINE		74	
←											1001469	1	HOSE ASSY-FLEX, S/C TO OPTICS		73	
←											1001470	1	HOSE ASSY, FLEX, IMU TO S/C	35	72	
←			1003700-021	←		1003700-011						1	APOLLO GUIDANCE COMPUTER	05	71	
							←				1010630-38	4	SCREW, FLAT HD HEX SOC		70	
							←				AN104608	4	SCREW, HEX HD		69	
							←				AN104606	4	SCREW, HEX HD		68	
							←				1004272	4	BRKT, COMP END CONN, UPPER BRACE		67	
							←				1010630-58	14	SCREW, FLAT HD HEX SOC		66	
							←	1003466	←		1003189	1	AGC END CONNECTOR ASSY		65	
							←				1003197	1	G&N HARNESS TRAY ASSY		64	
							←				1003184	1	MEMORY TRAY "B" ASSY		63	
							←				1003187	1	LOGIC TRAY "A" ASSY		62	
←				1003707	←	1003484	←	1003540	←		1003459	1	AGC DSKY, MAIN PANEL		61	
←				MS15795-807								4	WASHER FLAT		60	
←				MS35337-80								4	WASHER, LOCK		59	
←				MS16995-26								4	SCREW, SOCKET HEAD		58	
					←						MS15795-307	2	WASHER FLAT		57	
					←						MS35337-80	2	WASHER, LOCK		56	
					←						MS16995-26	2	SCREW, SOCKET HEAD		55	
←											1004609	1	FLANGE		54	
←											1004607	1	BRACKET, ANGLE		53	
					←						MS15795-308	4	WASHER, FLAT		52	
					←						MS16995-9	4	SCREW, SOCKET HEAD		51	
					←						MS35337-78	4	WASHER, LOCK		50	
					←						1003451	1	ALIGNMENT PIN ASSY		49	
←				1003706	←	1003551	←	1003524	←		1003458	1	AGC NAV DSKY	05	48	SEE NOTE 2
									←		1007121	1	SIGNAL CONDITIONER ASSY	30	47	
								←	1012136	←	1011559	1	MAP AND DATA VIEWER	15	46	SEE NOTE 3
←											1014532	1	OPTICS COVER ASSY	50	45	
←											1014502-011	1	OPTICS SHROUD ASSY		44	
←				1015064-021	←	1015064-011	←				1015003	1	CONTROL ELECTRONICS ASSY		43	
←				1014628-011	←	1015095-011	←				1014526-011	1	IMU CONTROL PANEL ASSY		42	
←				1015065-021	←	1015065-011	←		1007059	←	SK44633	1	D&C ELECTRONICS ASSY		41	
←				1014664-011	←	1015053-011	←				1014578-011	1	G&N INDICATOR & CONTROL PANEL ASSY	50	40	
←						1017538-021	←				1017538-011	1	CDU PANEL ASSY	40	39	
←						1015500-021	←				1015500-011	5	CDU ASSY	40	38	
←						1016885-021	1016908-011	←			1016885-011	1	CDU FRAME ASSY	40	37	
←											1014609	1	BRACKET, CLAMP	56	36	
←				1010705-8								2	CLAMP, LOOP		35	
					←						1010705-8	1	CLAMP, LOOP		34	
←											1010400-8	1	CLAMP, HINGED LOOP		33	
←											1010400-7	1			32	
←											1010400-3	3			31	
←											1010400-2	1			30	
←											1010400-1	5	CLAMP, HINGED LOOP		29	
←				1015086	←	1015056-011	←				1014606	1	AGE HARNESS & PSA END CONNECTOR ASSY	56	28	SEE NOTE 2
←											1008591	6	SCREW, REWORKED	45	27	
←						1008535	←				1008135	1	PSA TOECAP		26	
←				1007580-011	←	1007460-011	1021230-011	←			1007160	1	PSA-TRAY #10		25	
←				1007579-011	←	1007459-011	1021229-011	1007179	←		1007159	1	PSA-TRAY #9		24	
←				1007578-011	←	1007458-011	1021228-011	1007178	←		1007158	1	PSA-TRAY #8		23	
←				1007577-011	←	1007577-021	1021227-011	1007177	←		1007157	1	PSA-TRAY #7		22	
←				1007576-011	←	1007456-011	1021226-011	1007176	←		1007156	1	PSA-TRAY #6		21	
←				1007575-011	←	1007575-021	1021225-011	1007175	←		1007155	1	PSA-TRAY #5		20	
←				1007574-011	←	1007574-021	1021224-011	←			1007154	1	PSA-TRAY #4		19	
←				1007573-011	←	1007573-021	1021223-011	←			1007153	1	PSA-TRAY #3		18	
←				1007572-011	←	1007572-021	1021222-011	←			1007152	1	PSA-TRAY #2		17	
←				1007571-011	←	1007591-021	1021221-011	←			1007151	1	PSA-TRAY #1	45	16	
←	1001500-031	←		1001500-021	←	1001500-011	1001479	←			1000201	1	INERTIAL MEASUREMENT UNIT ASSY	35	15	
←				2011734	←						1011734	1	HOUSING, SCT PRISM ASSY OF	65	14	
←				2011786	←						1011786	1	MIRROR HOUSING ASSY (SXT EYEPIECE)		13	
←				2011788	←						1011788	1	L.E.R. EYEPIECE ASSY (SCT)		12	
←				2011787	←						1011787	1	L.E.R. EYEPIECE ASSY (SXT)		11	
←				2011932	←						1011932	1	EYEPIECE (SXT) ASSY OF		10	
←				2011960	←						1011960	1	SCT EYEPIECE ASSY		9	
←											1899971	6	SPRING, SEAL RETAINING		8	
←						1010828	←				1899970	2	MOUNT, RESILIENT, FRONT ASSY		7	
←										1899997-002	1899954-002	1	SEAL, BELLOWS		6	
←										1899997-001	1899954-001	1	SEAL, BELLOWS		5	
←											1899980	2	BOLT, HEX HEAD		4	
←											1899978	1	SNUBBER, FRONT, RH ASSY		3	
←											1899974	1	SNUBBER, FRONT, LH ASSY		2	
←				1899950-041	←	1899960-081	←			1899950-021	1899950-011	1	NAV BASE & OPTICAL UNIT	65	1	SEE NOTE 2
SERIES 100					SERIES "50"		SERIES "0"									
G&N SYSTEM CONFIGURATION																
← 122	121	109	111	110	17	12	20	8	7	6	5 ← serial no					

NOTES:

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS (BLOCK I) IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED PIECES OR SEPARATE PARTS
2. PARTS REMOVED FROM ITEMS 1, 28 & 48 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
3. MAP & DATA VIEWER ASSY, ITEM 46, INCLUDES ONE MAGAZINE ASSY. (SEE M&DV DWG FOR MAGAZINE PART NO.). A MAXIMUM OF FOUR ADDITIONAL MAGAZINES WILL BE USED PER MISSION REQUIREMENTS.
4. THIS DRAWING FOR REFERENCE ONLY

ITEM	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
48	AGC NAV DSKY	49 THRU 60
28	AGE HARNESS & PSA END CONNECTOR ASSY	29 THRU 36
1	NAV BASE & OPTICAL UNIT ASSY	2 THRU 14

TABLE I (SEE NOTE 2)

Ⓔ REPLACES REV. D WITH CHANGE

MASTER

1019999		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±	MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
NEXT ASSY	USED ON	DO NOT SCALE THIS DRAWING	DRAWN ANDERSON DATE 6-12-64	INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I
APPLICATION		MATERIAL	CHECKED	CODE IDENT NO.
		HEAT TREATMENT	APPROVAL J.J. Kim 2/2/65	SIZE
		FINAL FINISH	APPROVAL	NASA DRAWING NO. 1014999
			NASA APPROVAL 2/4/65	SCALE
			MIT APPROVAL W Kupfer 2/2/65	WT SHEET 1 OF 1

F2 1014999

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

SYM	
E	COMPLETELY REDRAWN
F	REVISED A [illegible] TDER [illegible] 23

LINE					-111	-111	-071	-071	-081	-051	-041	-061	-031	-021	-011	-000	QUANTITY	NOMENCLATURE OR DESCRIPTION	EQUIP CODE	LINE	
					SERIES 100					SERIES "50"		SERIES "0"									
					G&N SYSTEM CONFIGURATION																
80					←				1023040-011	←		1023014-011					1	CONDITION ANNUNCIATOR ASSY	50	80	
79					←							←				1003457	1	AGC CONNECTOR COVER PLATE	05	79	
78					←							←				1003180	1	AGC TOE PLATE	05	78	
77					←				1007585								1	TRACKER, X&Y ASSY	45	77	
76					←											1000110-307	1	SCREW, SOCKET HEAD	35	76	
75					←											1001591	1	BRACKET ASSY, COOLANT		75	
74					←											1000293	1	CLAMP, COOLANT LINE		74	
73					←											1001469	1	HOSE ASSY- FLEX, S/C TO OPTICS		73	
72					←											1001470	1	HOSE ASSY, FLEX, IMU TO S/C	35	72	
71					←			1003700-021	←		1003700-011						1	APOLLO GUIDANCE COMPUTER	05	71	
70					←							←				1010630-38	4	SCREW, FLAT HD HEX SOC		70	
69					←							←				AN104608	4	SCREW, HEX HD		69	
68					←							←				AN104606	4	SCREW, HEX HD		68	
67					←							←				1004272	4	BRKT, COMP END CONN, UPPER BRACE		67	
66					←							←				1010630-58	14	SCREW, FLAT HD HEX SOC		66	
65					←							←	1003466	←		1003189	1	AGC END CONNECTOR ASSY		65	
64					←							←				1003197	1	G&N HARNESS TRAY ASSY		64	
63					←							←				1003184	1	MEMORY TRAY "B" ASSY		63	
62					←							←				1003187	1	LOGIC TRAY "A" ASSY		62	
61					←				1003707	←	1003484	←	1003540	←		1003459	1	AGC DSKY MAIN PANEL		61	
60					←				MS15795-807								4	WASHER, FLAT		60	
59					←				MS35337-80								4	WASHER, LOCK		59	
58					←				MS16995-26								4	SCREW, SOCKET HEAD		58	
57					←					←						MS15795-307	2	WASHER FLAT		57	
56					←					←						MS35337-80	2	WASHER, LOCK		56	
55					←					←						MS16995-26	2	SCREW SOCKET HEAD		55	
54					←											1004609	1	FLANGE		54	
53					←											1004607	1	BRACKET, ANGLE		53	
52					←					←						MS15795-308	4	WASHER, FLAT		52	
51					←					←						MS16995-9	4	SCREW, SOCKET HEAD		51	
50					←					←						MS35337-78	4	WASHER, LOCK		50	
49					←					←						1003451	1	ALIGNMENT PIN ASSY		49	
48					←				1003706	←	1003551	←	1003524	←		1003458	1	AGC NAV DSKY	05	48	SEE NOTE 2
47					←									←		1007121	1	SIGNAL CONDITIONER ASSY	30	47	
46					←				--				←	1012136	←	1011559	1	MAP AND DATA VIEWER	15	46	SEE NOTE
45					←											1014532	1	OPTICS COVER ASSY	50	45	
44					←											1014502-011	1	OPTICS SHROUD ASSY		44	
43					←				1015064-021	←	1015064-011	←				1015003	1	CONTROL ELECTRONICS ASSY		43	
42					←				1014628-011	←	1015095-011	←				1014526-011	1	IMU CONTROL PANEL ASSY		42	
41					←				1015065-021	←	1015065-011	←		1007059	←	SK44633	1	D&C ELECTRONICS ASSY		41	
40					←				1014664-011	←	1015053-011	←				1014578-011	1	G&N INDICATOR & CONTROL PANEL ASSY	50	40	
39					←						1017538-021	←				1017538-011	1	CDU PANEL ASSY	40	39	
38					←						1015500-021	←				1015500-011	5	CDU ASSY	40	38	
37					←						1016885-021	1016908-011	←			1016885-011	1	CDU FRAME ASSY	40	37	
36					←											1014609	1	BRACKET, CLAMP	56	36	
35					←				1010705-8								2	CLAMP, LOOP		35	
34					←					←						1010705-8	1	CLAMP, LOOP		34	
33					←											1010400-8	1	CLAMP, HINGED LOOP		33	
32					←											1010400-7	1			32	
31					←											1010400-3	3			31	
30					←											1010400-2	1			30	
29					←											1010400-1	5	CLAMP, HINGED LOOP		29	
28					←				1015086	←	1015056-011	←				1014606	1	AGE HARNESS & PSA END CONNECTOR ASSY	56	28	SEE NOTE
27					←											1008591	6	SCREW, REWORKED	45	27	
26					←						1008535	←				1008135	1	PSA TOE CAP		26	
25					←				1007580-011	←	1007460-011	1021230-011	←			1007160	1	PSA-TRAY #10		25	
24					←				1007579-011	←	1007459-011	1021229-011	1007179	←		1007159	1	PSA-TRAY #9		24	
23					←				1007578-011	←	1007458-011	1021228-011	1007178	←		1007158	1	PSA-TRAY #8		23	
22					←				1007577-011	←	1007577-021	1021227-011	1007177	←		1007157	1	PSA-TRAY #7		22	
21					←				1007576-011	←	1007456-011	1021226-011	1007176	←		1007156	1	PSA-TRAY #6		21	
20					←				1007575-011	←	1007575-021	1021225-011	1007175	←		1007155	1	PSA-TRAY #5		20	
19					←				1007574-011	←	1007574-021	1021224-011	←			1007154	1	PSA-TRAY #4		19	
18					←				1007573-011	←	1007573-021	1021223-011	←			1007153	1	PSA-TRAY #3		18	
17					←				1007572-011	←	1007572-021	1021222-011	←			1007152	1	PSA-TRAY #2		17	
16					←				1007571-011	←	1007571-021	1021221-011	←			1007151	1	PSA-TRAY #1	45	16	
15					←	1001500-031	←		1001500-021	←	1001500-011	1001479	←			1000201	1	INERTIAL MEASUREMENT UNIT ASSY	35	15	
14					←				2011734	←						1011734	1	HOUSING, SCT PRISM ASSY OF	65	14	
13					←				2011786	←						1011786	1	MIRROR HOUSING ASSY (SXT EYEPIECE)		13	
12					←				2011788	←						1011788	1	L.E.R. EYEPIECE ASSY (SCT)		12	
11					←				2011787	←						1011787	1	L.E.R. EYEPIECE ASSY (SXT)		11	
10					←				2011932	←						1011932	1	EYEPIECE (SXT) ASSY OF		10	
9					←				2011960	←						1011960	1	SCT EYEPIECE ASSY		9	
8					←											1899971	6	SPRING, SEAL RETAINING		8	
7					←						1010828	←				1899970	2	MOUNT, RESILIENT, FRONT ASSY		7	
6					←										1899997-002	1899954-002	1	SEAL, BELLOWS		6	
5					←										1899997-001	1899954-001	1	SEAL, BELLOWS		5	
4					←											1899980	2	BOLT, HEX HEAD		4	
3					←											1899978	1	SNUBBER, FRONT, RH. ASSY		3	
2					←											1899974	1	SNUBBER, FRONT, LH ASSY		2	
1					←				1899950-041	←	1899950-031	←			1899950-021	1899950-011	1	NAV BASE & OPTICAL UNIT	65	1	SEE NOTE 2

← 122 121 109 111 110 17 12 20 8 7 6 5 ← serial no

NOTES:

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS (BLOCK I) IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED PIECES OR SEPARATE PARTS
2. PARTS REMOVED FROM ITEMS 1, 28 & 48 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
3. MAP & DATA VIEWER ASSY, ITEM 46, INCLUDES ONE MAGAZINE ASSY. (SEE M&DV DWG FOR MAGAZINE PART NO.). A MAXIMUM OF FOUR ADDITIONAL MAGAZINES WILL BE USED PER MISSION REQUIREMENTS.
4. THIS DRAWING FOR REFERENCE ONLY

ITEM	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
48	AGC NAV DSKY	49 THRU 60
28	AGE HARNESS & PSA END CONNECTOR ASSY	29 THRU 36
1	NAV BASE & OPTICAL UNIT ASSY	2 THRU 14

TABLE I (SEE NOTE 2)

Ⓔ REPLACES REV D WITH CHANGE

MASTER

NEXT ASSY	USED ON
1019999	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN J ANDERSON DATE
CHECKED
APPROVAL 2/3/65
APPROVAL
NASA APPROVAL
MIT APPROVAL W Keyser

MANNE) SPACECRAFT
HOUSTON, TEXAS

INSTALLATION — OF
APOLLO GUIDANCE
BLOCK I

CODE IDENT NO. | SIZE
SCALE | WT

E1 1014999

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS TDRR 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
G		REPLACES REV F WITH CHANGE PER TDRR 22512				

																110
																109
																108
																107
																106
												1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
					2007208							1	SENSOR AMPLIFIER ASSY		55	99
	1007585 -011	1007585 -011	1007585 -011	1007585 -011								1	TRACKER X & Y ASSY		55	98
												1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT		65	96
	2011787	2011787	2011787	2011787	1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT		65	95
	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414	1021414	1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 -001	1010728 - 001	1010728 -001	1010728 -001	1010728 -001	1010728 -001	1010728 -001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 -002	1899997 - 002	1899997 -002	1899997 -002	1899997 -002	1899997 -002	1899997 -002	1899997 -002	1899997 -002	1899997 -002	1899954 -002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 -001	1899954 -001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 041	1899950 - 041	1899950 - 041	1899950 -041	1899950 -031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 -021	1899950 -011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 -8	1010705 -8	1010705 - 8	1010705 -8	1010705 -8	1010705 - 8	1	CLAMP LOOP		56	73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 -8	1010400 - 8	1010400 -8	1010400 - 8	1010400 -8	1	CLAMP, HINGED LOOP		56	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 -7	1010400 -7	1010400 -7	1	CLAMP, HINGED LOOP		56	71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 -3	1010400 -3	1010400 - 3	1010400 -3	1010400 -3	1010400 -3	3	CLAMP, HINGED LOOP		56	70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 -1	1010400 -1	1010400 -1	1010400 -1	1010400 -1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015056-011	1015056 -011	1014606	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002		1023002 - 002						1	LONG HANDLE, G & N PANEL		50	66
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001		1023002 - 001						1	SHORT HANDLE, G & N PANEL		50	65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 -011								1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 021	1015065 - 021	1015065 - 021	1015065 - 021	1015065 - 011	1015065 - 011	1007059	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY		50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007460 - 011	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007400 - 011	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 011	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
					1012136	1012136	1012136	1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005707 - 021	1005707 - 011	1005707 - 021	1005707 - 021	1005707 - 011				1	WIRING HARNESS, AGC TO PSA/G & N TO SC		55	32
	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003484 - 011	1003484 - 011	1003553 - 011	1003540 - MD 1	1003459 - MD 2	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730				1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734				1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728				1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808				2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40				8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39				2	SCREW, FLAT HD HEX SOC		5	19
	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723				1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730				1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735				1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996 - 10	MS 16996-10	MS 16996 - 10	MS 16996 - 10	MS 16996 -10	MS 16996-10				4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996 - 13	MS 16996-13	MS 16996 -13	MS 16996 - 13	MS 16996 -13	MS 16996-13				2	SCREW, SOC HD HEX		5	14
												1	AGC CONN COVER PLATE		5	13
												1	AGC TOE PLATE		5	12
									1010630 -38	1010630 -38	1010630 -38	4	SCREW, FLAT HD HEX SOC		5	11
									AN 104608	AN 104608	AN 104608	4	SCREW, HEX HD		5	10
									AN 104606	AN 104606	AN 104606	4	SCREW, HEX HD		5	9
									1004272	1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
									1010630 -58	1010630 -58	1010630 -58	14	SCREW, FLAT HD HEX SOC		5	7
									1003189	1003489 -011	1003189	1	AGC END CONNECTOR ASSY		5	6
									1003197 - 011	1003197 -011	1003197	1	G & N HARNESS TRAY ASSY		5	5
									1003493 - 011	1003493 -011	1003184	1	MEMORY TRAY B ASSY		5	4
									1003187	1003488 -011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 021	1003700 - 021	1003700 - 021	1003700 - 031	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003186 MD 2	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 031	1003770 - 031	1003770 - 031	1003770 - 021	1003770 - 011	1003770 - 011	1003770 - 051	1003770 - 041	1003400 - 1	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's							2, C017,	2, TD203,	2, 6,	2, 9, 6,	6,	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	C021, 90,	C021, 90,	C021, 90,	C021, 90,	25, 85, 90, 109, 111, 114, C021,	85, 111, 114, 25, 90, C021,	20, 25, 63, 85, 111, 114, C021,	85, 109, 111, 114,		25,						
CONFIGURATION DASH NO.	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	21 AND ON	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, AND 76 FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I

MASTER

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

NEXT ASSY	USED ON
1019999	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μf RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING

MATERIAL

Ⓖ REPLACES REV F WITH CHANGE

QT REQD.	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 SIZE E DRAWING NO. 1014999
SCALE SHEET OF

1014999 G

							1010705 - 4							1	CLAMP LOOP			110
							1010400 - 9							1	CLAMP, HINGED LOOP			109
							1010400 - 4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
1000110 - 307	1000110 - 307	[illegible]	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
1001591	1001591	[illegible]	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	[illegible]	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	[illegible]	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	[illegible]	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400 - 10	1010400 - 10	[illegible]	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10				1	CLAMP, HINGED LOOP		55	99
1007585 - 011	1007585 - 011	[illegible]	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
2011788	2011788	[illegible]	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2011734	2011734	[illegible]	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
2011786	2011786	[illegible]	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
2011932	2011932	[illegible]	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2011960	2011960	[illegible]	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
1011625 - 39 (5)	1011625 - 39 (5)	[illegible]	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407	1021407	[illegible]	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994 - 011	1899994 - 011	[illegible]	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	[illegible]	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728 - 001	1010728 - 001	[illegible]	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
1899975	1899975	[illegible]	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	[illegible]	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	[illegible]	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	[illegible]	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997 - 002	1899997 - 002	[illegible]	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
1899997 - 001	1899997 - 001	[illegible]	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	[illegible]	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	[illegible]	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	[illegible]	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950 - 081	1899950 - 081	[illegible]	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
1010400 - 7	1010400 - 7	1010400	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	66
1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	65
1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011								1	CONDITION ANNUNCIATOR ASSY		50	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 011	1015065 - 011	1007059	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 011	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136	1012136	1012136	1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 011	1005707 - 021	1005707 - 021	1005707 - 011				1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003484 - 011	1003484 - 011	1003553 - 011	1003540 - MD 1	1003459 - MD 2	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730				1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734				1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728				1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808				2	WASHER, FLAT		5	21
1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40				8	SCREW, FLAT HD HEX SOC		5	20
1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39				2	SCREW, FLAT HD HEX SOC		5	19
1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723				1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730				1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735				1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10				4	SCREW, SOC HD HEX		5	15
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13				2	SCREW, SOC HD HEX		5	14
														1	AGC CONN COVER PLATE		5	13
														1	AGC TOE PLATE		5	12
											1010630 - 38	1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
											AN 104608	AN 104608	AN 104608	4	SCREW, HEX HD		5	10
											AN 104606	AN 104606	AN 104606	4	SCREW, HEX HD		5	9
											1004272	1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
											1010630 - 58	1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
											1003189	1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
											1003197 - 011	1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
											1003493 - 011	1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
											1003187	1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003186 MD 2	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770 - 061	1003770 - 061	[illegible]	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 011	1003770 - 011	1003770 - 051	1003770 - 041	1003400 - 1	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
							25		2, C017,	2, TD203,	2, 6,	2, 9, 6,	6,	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
75, 90	75, 90	75, 90	175, 90	175, 90	175, 90	175, 90	83, 85, 90, 109, 111, 114, 130, 175	85, 111, 114, 25, 90, 175, 130, 83	20, 25, 63, 85, 111, 114, 175, 130.	85, 109, 111, 114, 130,		25,						
-13	-2	-	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
24	23	22	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

MASTER

REVISIONS TDRR 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904				

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1019999	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones
CHECKED 15 Sept 65
APPROVED 14 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET OF 2

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10				1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		55	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		55	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	8
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		55	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		55	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		[illegible]	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		[illegible]	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	66
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011								1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 011	1015065 - 011	1007059	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 011	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136	1012136	1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 011	1005707 - 021	1005707 - 021	1005707 - 011				1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003484 - 011	1003484 - 011	1003553 - 011	1003540 - MD 1	1003459 - MD 2	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730				1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734				1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728				1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808				2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40				8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39				2	SCREW, FLAT HD HEX SOC		5	19
	1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723				1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730				1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735				1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10				4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13				2	SCREW, SOC HD HEX		5	14
															1	AGC CONN COVER PLATE		5	13
															1	AGC TOE PLATE		5	12
												1010630 - 38	1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630 - 58	1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
												1003189	1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197 - 011	1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493 - 011	1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003187	1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003186 MD 2	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 011	1003770 - 011	1003770 - 051	1003770 - 041	1003400 - 1	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	
INCORPORATED ECP'S								25		2, C017,	2, TD203,	2, 6,	2, 9, 6,	6,	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP'S	175, 90	175, 90	175, 90	175, 90	175, 90	175, 90	175, 90	83, 85, 90, 109, 111, 114, 130, 175	85, 111, 114, 25, 90, 175, 130, 83	20, 25, 63, 85, 111, 114, 175, 130	85, 109, 111, 114, 130,		25,						
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

1019999
NEXT ASSY | USED ON
APPLICATION

REVISIONS 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	4K

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			11
[illegible] ON DASH NO	-13	-2	-111	-101	-0[illegible]1	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
[illegible] SYSTEMS	24	23	122	121	[illegible]9	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1019999	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones Oct 4 1965
CHECKED A. J. [illegible]
APPROVED
APPROVED D. HOAG
APPROVED MIT 5 Oct 65
APPROVED MSC 10/5/65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 H

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
								2018898							1	WIRING HARNESS			15
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			14
								1010705 8							1	CLAMP LOOP			13
								1010705 -6							1	CLAMP LOOP			12
								1010705 -5							1	CLAMP LOOP			11
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

QTY REQD

019999	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± ± —
DO NOT SCALE THIS DRAWING

MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED
APPROVED MIT

REVISIONS TDRR 06407					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE / APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			
J		REVISED PER TDRR 23203			

-13	-21	-11	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10				1	CLAMP, HINGED LOOP		55	99
1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950-081	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3 (1)	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-011	1015056-011	1014606	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G & N PANEL		50	66
1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G & N PANEL		50	65
1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011								1	CONDITION ANNUNCIATOR ASSY		50	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-011	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-011	1015065-011	1007059	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-011	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-000	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007460-011	1021230-011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007400-011	1021207-011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016908-011	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-021	1016903-021	1016905-011	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136	1012136	1012136	1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005707-011	1005707-021	1005707-021	1005707-011				1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003484-011	1003484-011	1003553-011	1003540-MD 1	1003459-MD 2	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730				1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734				1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728				1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808				2	WASHER, FLAT		5	21
1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40				8	SCREW, FLAT HD HEX SOC		5	20
1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39				2	SCREW, FLAT HD HEX SOC		5	19
1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723				1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730				1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735				1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10				4	SCREW, SOC HD HEX		5	15
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13				2	SCREW, SOC HD HEX		5	14
														1	AGC CONN COVER PLATE		5	13
														1	AGC TOE PLATE		5	12
											1010630-38	1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
											AN 104608	AN 104608	AN 104608	4	SCREW, HEX HD		5	10
											AN 104606	AN 104606	AN 104606	4	SCREW, HEX HD		5	9
											1004272	1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
											1010630-58	1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
											1003189	1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
											1003197-011	1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
											1003493-011	1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
											1003187	1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700-041	1003700-041	1003700-04	1003700-021	1003700-041	1003700-021	1003700-031	1003700-011	1003700-011	1003700-011	1003700-011	1003186 MD 2	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770-06	1003770-06	1003770-06	1003770-031	1003770-061	1003770-031	1003770-021	1003770-011	1003770-011	1003770-051	1003770-041	1003400-1	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
							25		2, C017,	2, TD203,	2,6,	2,9,6,	6,					
75, 90	75, 90, 23	175, 90, 23	175, 90, 160, 171, 80, 123	175, 90, 123	175, 90, 171, 80 123	75, 90, 171, 80, 123	83, 85, 90, 109, 111, 114, 130, 175, 137,	85, 111, 114, 25, 90, 175, 130, 83, 160. 80, 137	20, 25, 63, 85, 111, 114, 175, 130, 160. 80, 96	85, 109, 111, 114, 130,		25,						
24	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				

1019999	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones
CHECKED 18 Sept
APPROVED T.J.
APPROVED D. HOAG PER TDRR
APPROVED MIT McMurdo 15 Sept
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET OF 2

1014999

E-2

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	
								1010705-4							1	CLAMP LOOP			[illegible]
								1010400-9							1	CLAMP, HINGED LOOP			[illegible]
								1010400-4							2	CLAMP, HINGED LOOP			[illegible]
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			[illegible]
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 &		[illegible]
															1	FLIGHT-DATA BOOK		55	[illegible]
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	[illegible]
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	[illegible]
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	[illegible]
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	[illegible]
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	[illegible]
	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10				1	CLAMP, HINGED LOOP		55	[illegible]
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	[illegible]
															1	LENS CLEANING KIT		55	[illegible]
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	[illegible]
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	[illegible]
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	[illegible]
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	[illegible]
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	[illegible]
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	[illegible]
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	[illegible]
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	[illegible]
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	[illegible]
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	[illegible]
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	[illegible]
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	[illegible]
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	[illegible]
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	[illegible]
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	[illegible]
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	[illegible]
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-081	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3 (1)	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-011	1015056-011	1014606	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		[illegible]	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011								1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-011	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-011	1015065-011	1007059	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-011	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-000	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007460-011	1021230-011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		[illegible]	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007400-011	1021207-011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	[illegible]
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016908-011	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-021	1016903-021	1016905-011	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		[illegible]	34
								1012136	1012136	1012136	1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		5	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005707-011	1005707-021	1005707-021	1005707-011				1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE	56	32
	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003484-011	1003484-011	1003553-011	1003540-MD 1	1003459-MD 2	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730				1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734				1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728				1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808				2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40				8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39				2	SCREW, FLAT HD HEX SOC		5	19
	1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723				1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730				1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735				1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10				4	SCREW, SOC HD HEX		5	[illegible]
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13				2	SCREW, SOC HD HEX		5	14
															1	AGC CONN COVER PLATE		5	[illegible]
															1	AGC TOE PLATE		5	[illegible]
												1010630-38	1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	[illegible]
												AN 104608	AN 104608	AN 104608	4	SCREW, HEX HD		5	[illegible]
												AN 104606	AN 104606	AN 104606	4	SCREW, HEX HD		5	[illegible]
												1004272	1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	[illegible]
												1010630-58	1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	[illegible]
												1003189	1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	[illegible]
												1003197-011	1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	[illegible]
												1003493-011	1003493-011	1003184	1	MEMORY TRAY B ASSY		5	[illegible]
												1003187	1003488-011	1003187	1	LOGIC TRAY A ASSY		5	[illegible]
	1003700-041	1003700-041	1003700-041	1003700-021	1003700-041	1003700-021	1003700-031	1003700-011	1003700-011	1003700-011	1003700-011	1003186 MD 2	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	[illegible]
	1003770-061	1003770-061	1003770-061	1003770-031	1003770-061	1003770-031	1003770-021	1003770-011	1003770-011	1003770-051	1003770-041	1003400-1	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	[illegible]
INCORPORATED ECP's								25		2, C017,	2, TD203,	2, 6,	2, 9, 6,	6,					
OUTSTANDING ECP's	175, 90	175, 90, 123	175, 90, 123	175, 90, 160, 171, 80, 123	175, 90, 123	175, 90, 171, 80 123	175, 90, 171, 80, 123	83, 85, 90, 109, 111, 114, 130, 175, 137,	85, 111, 114, 25, 90, 175, 130, 83, 160. 80, 137	20, 25, 63, 85, 111, 114, 175, 130, 160. 80, 96	85, 109, 111, 114, 130,		25,						
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

1019999	
NEXT ASSY	USED ON
APPLICATION	

DO NOT SCALE

MATERIAL

REVISIONS 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	WK
J		REVISED PER TDRR 23205			[illegible]	WK

[illegible] DASH NO.	- 3[illegible]	- 2[illegible]	-111	-101	- [illegible]1	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
[illegible] SYSTEMS	24	23	122	121	[illegible]9	111	110	17	12	20	8	7	6	5					
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1C19999	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED D HOAG
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

F-2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	[illegible] CODE	FIND NO.
								2018898							1	WIRING HARNESS			15
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			4
								1010705 8							1	CLAMP LOOP			3
								1010705 - 6							1	CLAMP LOOP			2
								1010705 - 5							1	CLAMP LOOP			
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

1019999	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

QTY REQD

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED
EDIT
APPROVED
DSC.

REVISIONS TDRR C 6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/8/65	
J		REVISED PER TDRR 23203				
K		REVISED PER TDRR 23259			10/1/65	

							1010705 - 4							1	CLAMP LOOP			110
							1010400 - 9							1	CLAMP, HINGED LOOP			109
							1010400 - 4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP		55	99
1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G & N PANEL		50	66
1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G & N PANEL		50	65
1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011								1	CONDITION ANNUNCIATOR ASSY		50	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 011	1015065 - 011	1007059	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 011	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136	1012136	1012136	1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 011	1005707 - 021	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003484 - 011	1003484 - 011	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003551	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN104608	4	SCREW, HEX HD		5	10
												AN 104606	AN104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003496 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 011	1003770 - 011	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
							25			2, TD203	2, CO17	2,5,6	6	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
75, 90	75, 90, 23	75, 90, 23	175, 90, 160, 171, 80, 123	175, 90, 23	175, 90, 171, 80, 123	175, 90, 171, 80, 123	83, 85, 90, 109, 114, 114, 130, 175, 137	85, 114, 114, 75, 90, 175, 130, 83, 160, 80, 137	20, 25, 63, 85, 111, 114, 175, 130, 160, 80, 96, 109	85, 109, 111, 114, 130	85, 111, 114	25						
-13	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
24	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1019999	

APPLICATION

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

DRAWN

CHECKED 15 Sept 65

APPROVED

APPROVED D. HOAG PER TDRR

APPROVED MIT 15 Sept 65

APPROVED MSC

DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	1014999

SCALE —

SHEET 1 OF 2

E-2

	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQ IP. CODE	FIND NO.
								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK			105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD			104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT			103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE			102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C			101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C			100
	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP			99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY			98
															1	LENS CLEANING KIT			97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6		96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6		95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY			94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY			93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY			92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY			91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP			90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS			89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY			88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT			87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD			86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY			85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR			84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING			83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT			82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS			81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS			80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD			79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY			78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY			77
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4		76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)			75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP			74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP			73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP			72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP			71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5		70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP			69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP			68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4		67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL			66
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL			65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011								1	CONDITION ANNUNCIATOR ASSY			64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY			63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY			62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY			61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY			60
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 011	1015065 - 011	1007059	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY			59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4		58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE		57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED			56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP			55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007160	1	TRAY 10			54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9			53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8			52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG			51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7			50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6			49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5			48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4			47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3			46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2			45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1			44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE		43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD			42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL			41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY			40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY			39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY			38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4		37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 011	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE		36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY			35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY			34
								1012136	1012136	1012136	1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER			33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 011	1005707 - 021	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4		32
	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003484 - 011	1003484 - 011	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY			31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK			30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT			29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD			28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE			27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE			26
	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003551	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4		25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR			24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE			23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC			22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT			21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC			20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC			19
	1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL			18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL			17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE			16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX			15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX			14
														1003457	1	AGC CONN COVER PLATE			13
														1003190	1	AGC TOE PLATE			12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC			11
													AN 104608	AN 104608	4	SCREW, HEX HD			10
													AN 104606	AN 104606	4	SCREW, HEX HD			9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE			8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC			7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY			6
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY			5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY			4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY			3
	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4		2
	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 011	1003770 - 011	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE		1
INCORPORATED ECP'S								25			2, TD203	2, CO17	2, 9, 6	6	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQ IP. CODE	FIND NO.
OUTSTANDING ECP'S	175, 90	175, 90, 123	175, 90, 123	175, 90, 160, 171, 80, 123	175, 90, 123	175, 90, 171, 80 123	175, 90, 171, 80, 123	83, 85, 90, 109, 111, 114, 130, 175, 137	85, 111, 114, 25, 90, 175, 130, 83, 160. 80, 137	20, 25, 63, 85, 111, 114, 175, 130, 160. 80, 96, 109	85, 109, 111, 114, 130	85, 111, 114	25						
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — —
DO NOT SCALE THIS DRAWING
MATERIAL

1019999

NEXT ASSY USED ON
APPLICATION

QTY REQD

DRAWN
CHECKED
APPROVED
APPROVED

E-2

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
	124	23	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1019999	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones
CHECKED
APPROVED
APPROVED D HOAG
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 -8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			11
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

1019999	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

QTY REQD

DRAWN

CHECKED

APPROVED

APPROVED

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-081	1899950-081	1899950-061	1899950-061	1899950-061	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3 (1)	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-011	1015056-011	1014606-011	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011								1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-021	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-031	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-021	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007460-011	1021230-011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007400-011	1021207-011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016385-021	1016885-021	1016885-021	1016885-021	1016908-011	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-021	1016903-021	1016905-021	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136	1012136	1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005707-011	1005707-021	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003484-011	1003484-011	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003551	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-041	1003700-041	1003700-041	1003700-021	1003700-041	1003700-021	1003700-031	1003700-011	1003700-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-06	1003770-061	1003770-061	1003770-031	1003770-061	1003770-031	1003770-021	1003770-011	1003770-011	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S								25		20	2, TD203	2, CO17	2, 9, 6	6	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP'S	75, 90	75, 90, 23	175, 90, 123	175, 90, 160, 171, 80, 123	175, 90, 123	175, 90, 171, 80, 123	175, 90, 171, 80, 123	83, 85, 90, 109, 111, 114, 130, 175, 137	85, 11, 114, 25, 90, 175, 130, 83, 160, 80, 137	25, 63, 85, 111, 114, 175, 130, 160, 80, 96, 109	85, 109, 111, 114, 130	85, 111, 114	25						
[illegible] DASH NO.	-13	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
[illegible] SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR C 6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	
J		REVISED PER TDRR 23203			10/19/65	
K		REVISED PER TDRR 23259			10/19/65	
L		REVISED PER TDRR 23502			10/26/65	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1019999	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED 18 Sept
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999
SCALE — | SHEET OF 2

MASTER

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 &		106
															1	FLIGHT-DATA BOOK		5	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		5	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		5	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		5	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		5	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		5	100
	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10			1	CLAMP, HINGED LOOP		5	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		5	98
															1	LENS CLEANING KIT		5	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	5	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	5	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		5	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		5	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		5	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		5	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		5	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		5	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		5	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		5	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 45-11	2	BOLT, HEX HD		5	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		5	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1699969	1	MOUNT, RESILIENT, REAR		5	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		5	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		5	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		5	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		5	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		5	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		5	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		5	77
	1899950-081	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	5	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET, CLAMP (INSEPARABLE ASSY)			75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP			74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3 (1)	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-011	1015056-011	1014606-011	1014606	1014606	1014606	1014606	1	AGC HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE	50	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011								1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-021	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-031	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-021	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007460-011	1021230-011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		4	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007400-011	1021207-011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016908-011	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-021	1016903-021	1016905-021	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136	1012136	1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005707-011	1005707-021	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003484-011	1003484-011	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003551	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-041	1003700-041	1003700-041	1003700-021	1003700-041	1003700-021	1003700-031	1003700-011	1003700-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-061	1003770-061	1003770-061	1003770-031	1003770-061	1003770-031	1003770-021	1003770-011	1003770-011	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's								25		20	2, TD203	2, CO17	2, 9, 6	6					
OUTSTANDING ECP's	175, 90	175, 90, 123	175, 90, 123	175, 90, 160, 171, 80, 123	175, 90, 123	175, 90, 171, 80, 123	175, 90, 171, 80, 123	83, 85, 90, 109, 111, 114, 130, 175, 137	85, 111, 114, 25, 90, 175, 130, 83, 160, 80, 137	25, 63, 85, 111, 114, 175, 130, 160, 80, 96, 109	85, 109, 111, 114, 130	85, 111, 114	25						
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.

1019999	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED

REVISIONS C6407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	WR
J		REVISED PER TDRR 23209			10/13/65	WR
K		REVISED PER TDRR 23259			10/19/65	WR
L		REVISED PER TDRR 23502			10/26/65	[illegible]

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYST NS	24	23	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1019999	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones Oct 4 1965
CHECKED A.J. [illegible]
APPROVED
APPROVED D. HOAG for [illegible] WR
APPROVED MIT [illegible] A.C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

10 9 8 7 6 5 4 3 2

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FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND. NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
								2018898							1	WIRING HARNESS			5
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			14
								1010705 8							[illegible]	CLAMP LOOP			[illegible]
								1010705 -6							1	CLAMP LOOP			12
								1010705 -5							1	CLAMP LOOP			[illegible]

19999	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ±
DO NOT SCALE THIS DRAWING
MATERIAL

10 9 8 7 6 5 4 3 2

							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
0-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
0400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10			1	CLAMP, HINGED LOOP		55	99
7585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
1788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
532	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
6	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-007	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3 (1)	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015085	1015056-011	1015056-011	1014606-021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G & N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G & N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007460-011	1021230-011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
7579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
7593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
76-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
75-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007400-011	1021207-011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016908-011	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-021	1016903-021	1016905-021	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
5727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005707-011	1005707-021	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
7-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003484-011	1003484-011	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
5-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
6995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
4669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
6-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003551	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
4728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
5795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
4285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
3735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
96-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
96-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
3700-041	1003700-041	1003700-041	1003700-021	1003700-041	1003700-021	1003700-031	1003700-011	1003700-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
-06	1003770-061	1003770-061	1003770-031	1003770-061	1003770-031	1003770-021	1003770-011	1003770-011	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
							25, 177	177	20, 63, 96, 177	2, TD203	2, CO 17	2, 9, 6	6	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
75, 90	175, 90, 23	175, 90, 123	175, 90, 160, 171, 80, 123	175, 90, 123	175, 90, 171, 80 123	175, 90, 171, 80, 123	83, 85, 90, 109, 111, 114, 130, 175, 137, 147	85, 111, 114, 25, 90, 175, 130, 83, 160. 80, 137, 147	25, 85, 111, 114, 175, 130, 160. 80, 96, 109, 147, 159	85, 109, 111, 114, 130, 147	85, 111, 114	25.						
-1	-111	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
24	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR C 6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/6/65	
J		REVISED PER TDRR 23203			10/19/65	
K		REVISED PER TDRR 23259			10/19/65	
L		REVISED PER TDRR 23502			10/20/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 1000000

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.J. Jones 9 Sept 65
CHECKED 15 Sept 65
APPROVED 15 Sept 65
APPROVED D. HOAG
PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET OF 2

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		5	105
	1000110 - 307	1000110-307	1000110-307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		5	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		5	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		5	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		5	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		5	100
	1010400 - 10	1010400-10	1010400-10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP		5	99
	1007585 - 011	1007585-011	1007585-011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		5	98
															1	LENS CLEANING KIT		5	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	5	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	5	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		5	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		5	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		5	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		5	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		5	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		5	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		5	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		5	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		5	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		5	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		5	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		5	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		5	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		5	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		5	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		5	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		5	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		5	77
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	5	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G & N PANEL		50	66
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G & N PANEL		50	65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007153	1007159	1007159	1	TRAY 9		45	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER			33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 011	1005707 - 021	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	35	32
	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003484 - 011	1003484 - 011	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003551	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 011	1003770 - 011	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's								25, 177	177	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 90	175, 90, 123	175, 90, 123	175, 90, 160, 171, 80, 123	175, 90, 123	175, 90, 171, 80 123	175, 90, 171, 80, 123	83, 85, 90, 109, 111, 114, 130, 175, 137, 147	85, 111, 114, 25, 90, 175, 130, 83, 160. 80, 137, 147	25, 85, 111, 114, 175, 130, 160. 80, 96, 109, 147, 159	85, 109, 111, 114, 130, 147	85, 111, 114	25						
CONFIGURATION DASH NO.	-111	-111	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN [illegible]
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS [illegible]
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/4/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
ON DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	24	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1019999	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.G. Jones Oct 4 1965
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

F-2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	MFR. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

1019999	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

QTY REQD

CHECKED
APPROVED
APPROVED

							1010705-4							1	CLAMP LOOP			110
							1010400-9							1	CLAMP, HINGED LOOP			109
							1010400-4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
[illegible]591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
[illegible]293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
[illegible]469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
[illegible]470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
[illegible]0400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10			1	CLAMP, HINGED LOOP		55	99
[illegible]7585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
[illegible]734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
[illegible]	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
[illegible]932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
[illegible]	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
[illegible]625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
[illegible]	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
[illegible]-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
[illegible]-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
[illegible]	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
[illegible]	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
[illegible]	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
[illegible]828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
[illegible]-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
[illegible]-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
[illegible]	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
[illegible]	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
[illegible]	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
[illegible]-081	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
[illegible]	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
[illegible]5-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
[illegible]	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
[illegible]-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
[illegible]-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
[illegible]	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3 (1)	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
[illegible]-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
[illegible]-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
[illegible]	1015086	1015086	1015086	1015086	1015086	1015086	1015056-011	1015056-011	1014606-021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
[illegible]-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		50	66
[illegible]-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		50	65
[illegible]-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
[illegible]	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
[illegible]-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
[illegible]5064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
[illegible]-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
[illegible]041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
[illegible]4664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
[illegible]-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
[illegible]	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
[illegible]	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
[illegible]-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007460-011	1021230-011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
[illegible]7579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
[illegible]-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
[illegible]-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
[illegible]-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
[illegible]76-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
[illegible]-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
[illegible]574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
[illegible]573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
[illegible]-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
[illegible]-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
[illegible]-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007400-011	1021207-011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
AN [illegible] 440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
[illegible]	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
[illegible]-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
[illegible]-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
[illegible]021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
[illegible]-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016908-011	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
[illegible]-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-021	1016903-021	1016905-021	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
[illegible]031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
[illegible]-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
[illegible]5727	1005727	1005727	1005727	1005727	1005727	1005707-021	1005707-011	1005707-021	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
[illegible]-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003707-011	1003484-011	1003484-011	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
MS [illegible]80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
[illegible]807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS [illegible]26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
[illegible]4669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
[illegible]	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
[illegible]6-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003706-011	1003551	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
[illegible]	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
[illegible]	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
[illegible]	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS [illegible]-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
[illegible] 40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
[illegible]-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
[illegible]	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
[illegible]	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
[illegible]	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS [illegible]-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
MS [illegible]-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
[illegible]-041	1003700-041	1003700-041	1003700-021	1003700-041	1003700-021	1003700-031	1003700-011	1003700-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
[illegible]-06[illegible]	1003770-061	1003770-061	1003770-031	1003770-061	1003770-031	1003770-021	1003770-011	1003770-011	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
							25, 177	177	20, 63, 96, 177	2, TD203	2, CO 17	2, 9, 6	6	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
75, 90	75, 90, 23	175, 90, 123	175, 90, 160, 171, 80, 123	175, 90, 123	175, 90, 171, 80 123	175, 90, 171, 80, 123	83, 85, 90, 109, 111, 114, 130, 175, 137, 147, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 208, 212, 195	85, 111, 114, 25, 90, 175, 130, 83, 160, 80, 137, 147, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 208, 212, 195	25, 85, 111, 114, 175, 130, 160, 80, 109, 147, 159	85, 109, 111, 114, 130, 147	85, 111, 114	25						
-1	-111	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
24	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR C 6407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	
J		REVISED PER TDRR 23203			[illegible]	
K		REVISED PER TDRR 23259			10/18/65	
L		REVISED PER TDRR 23502			10/20/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED 13 Sept
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MSC 15 Sept
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 SIZE J DRAWING NO. 1014999
SCALE — SHEET 1 OF 2

E-2

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	66
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 011	1005707 - 021	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003484 - 011	1003484 - 011	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003551	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004723	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 011	1003770 - 011	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's								25, 177	177	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 90	175, 90, 123	175, 90, 123	175, 90, 160, 171, 80, 123	175, 90, 123	175, 90, 171, 80, 123	175, 90, 171, 80, 123	83, 85, 90, 109, 111, 114, 130, 175, 137, 147, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 208, 212, 195	85, 111, 114, 25, 90, 175, 130, 83, 160, 80, 137, 147, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 208, 212, 195	25, 85, 111, 114, 175, 130, 160, 80, 109, 147, 159	85, 109, 111, 114, 130, 147	85, 111, 114	25						
CONFIGURATION DASH NO.	-111	-111	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

QTY REQD

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED

REVISIONS			06407			
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/1/65	WK
K		REVISED PER TDRR 23[illegible]7			10/13/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23610	RAJ		11-2-65	
N		REVISED PER TDRR 23526	RAJ		11-9-65	

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
[illegible] ON DAS NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
[illegible] SYSTEM	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones Oct 4 1965
CHECKED [illegible]
APPROVED
APPROVED D. HOAG FOR TDRR WH
APPROVED MIT W. [illegible]
APPROVED MSC C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
								2018898							1	WIRING HARNESS			
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			
								1010705 8								CLAMP LOOP			
								1010705 -6							1	CLAMP LOOP			
								1010705 -5							1	CLAMP LOOP			
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

QTY REQD
DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

							1010705 - 4							1	CLAMP LOOP			110
							1010400 - 9							1	CLAMP, HINGED LOOP			109
							1010400 - 4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP		55	99
1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G & N PANEL		50	66
1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G & N PANEL		50	65
1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 021	1005707 - 021	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
1003707 - 021	1003707 - 021	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003569 - 011	1003484 - 011	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
1003706 - 021	1003706 - 021	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004783	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	10035[illegible] - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
1003770 - 081	1003770 - 081	1003770 - 081	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 071	1003770 - 011	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
ORPORATED ECP'S							25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212,	177	20, 63, 96, 177	2, TD203	2, CO 17	2, 9, 6	6	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
TANDING ECP'S	175, 90 180,	175, 90, 123 180,	175 90 123 180 182 183 184 187 189	175, 90, 160, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207	175, 90, 123, 180, 182, 183, 184, 187, 189 207	175, 90, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207	175, 90, 171, 80, 123, 182, 183, 184, 187, 189, 212	83, 180, 90, 130, 175, 137	180, 111, 114, 25, 90, 175, 130, 83, 160, 80, 137, 147, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 208, 212, 195	25, 111, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212	175, 109, 111, 114, 130, 147	111, 114	25					
DASH NO.	-111	-111	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000				
TEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5				

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

REVISIONS TDRR 6457

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904				
J		REVISED PER TDRR 23203				
K		REVISED PER TDRR 23259				
L		REVISED PER TDRR 23508				
M		REVISED PER TDRR 23620	RAJ		11-9-65	
N		REVISED PER TDRR 23926	RAJ		11-18-65	
P		REVISED PER TDRR 24056	RAJ			
R		REVISED PER TDRR 24370	RAJ		12-3-65	

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
ND 1000000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R.A. Jones Sept. 13 1965
CHECKED 13 Sept 65
APPROVED 14 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT McMurdo 15 Sept 65
APPROVED MSC
DATE

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP		55	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	66
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007160	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007100		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 021	1005707 - 021	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	1003707 - 021	1003707 - 021	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003569 - 011	1003484 - 011	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 021	1003706 - 021	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004783	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 081	1003770 - 081	1003770 - 081	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 071	1003770 - 011	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	
INCORPORATED ECP's								25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212,	177	20, 63, 96, 177	2, TD203	2, CO 17	2, 9, 6	6	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 90 180,	175, 90, 123 180,	175 90 123 180 182 183 184 167 189	175, 90, 160, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207	175, 90, 123, 180, 182, 183, 184, 187, 189 207	175, 90, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207	175, 90, 171, 80, 123, 182, 183, 184, 187, 189, 212	83, 180, 90, 130, 175, 137	180, 111, 114, 25, 90, 175, 130, 83, 160, 80, 137, 147, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 208, 212, 195	25, 111, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212	75, 109, 111, 114, 130, 147	111, 114	25						
CONFIGURATION DASH NO.	-111	-111	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

M I T
INSTRUMENTATION LABORATORY
CAMBRIDGE

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED

REVISIONS C6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23203			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	PAJ		11-2-65	WK
N		REVISED PER TDRR 23926	PAJ		11-9-65	WK
P		REVISED PER TDRR 24056	PAJ		11-18-65	WK
R		REVISED PER TDRR 24370	PAJ		12-3-65	WK

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
RATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R. A. Jones Oct 4 1965
CHECKED A. J. [illegible] Oct 5 1965
APPROVED
APPROVED D. HOAG per [illegible] WK
APPROVED MIT W. [illegible] 6 Oct 65
APPROVED MSC A. C. METZGER
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 R

24

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

TY QD | PART OR IDENTIFYING

MIT
INSTRUMENTATION
CAMBRIDGE MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	C - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	70	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	0400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP		55	99
	7585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	32	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	-3 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	994 - 0	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	[illegible]	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	-001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	99975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	[illegible]	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	[illegible]	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	28	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	-002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	[illegible]	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	[illegible]	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	[illegible]	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	[illegible]	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	-081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	[illegible]	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	[illegible]	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	[illegible]	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
	[illegible]	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
	-7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	[illegible]	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	-2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	-1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	[illegible]	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	-002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	66
	-001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	65
	-011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
	[illegible]	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	-011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	64 - 02	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	-011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	[illegible]	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	664	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	-02	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	[illegible]	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	[illegible]	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	-011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	7579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	[illegible]	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	-011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	[illegible]	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	[illegible]	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	-011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	-011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
	D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	[illegible]	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	-031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	-021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	-021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	-021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	-031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	[illegible]	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	-031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	[illegible]	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 021	1005707 - 021	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	-031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003484 - 011	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	-011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	[illegible]	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	-031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	[illegible]	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	[illegible]	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	4728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	-808	MS 15795 - 808	MS 15795 - 808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	-40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	-39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	4285	1004285	1004285	1004285	1004285	1004285	1004285	1004783	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	[illegible]	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	3735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	-10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	-13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	3700 - 051	1003700 - 051	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	-091	1003770 - 091	1003770 - 081	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 131	1003770 - 011	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
RPORATED ECP'S								25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6, 25					
UTSTANDING ECP'S	75, 90 80, 69	75, 90, 23 80, 69	75, 90, 123, 180, [illegible] 83, 184, 187, 189, [illegible]	175, 90, 160, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169	175, 90, 123, 180, 182, 183, 184, 187, 189 207	175, 90, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169	175, 90, 171, 80, 123, 182, 183, 184, 187, 189, 212, 169	83, 180, 90, 130, 137	180, 111, 114, 25, 90, 175, 130, 83, 160, 80, 137, 147, 171, 182 THRU 190, 208, 212, 195, 165, 169	25, 111, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169	175, 109, 111, 114, 130, 147	111, 114	25						
DASH NO.	-1[illegible]1	-121	-111	-101	-071	-091	-081	-051	041	-061	-031	-021	-011	-000					
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR C6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	
J		REVISED PER TDRR 23208			10/18/65	
K		REVISED PER TDRR 23259			10/19/65	
L		REVISED PER TDRR 23502			10/26/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R	Ⓐ	REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 1000000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones SEPT. 15 1965
CHECKED 15 Sept 65
APPROVED 14 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

MASTER

F2

								1010705 - 4							1	CLAMP LOOP		[illegible]	[illegible]
								1010400 - 9							1	CLAMP, HINGED LOOP		[illegible]	[illegible]
								1010400 - 4							2	CLAMP, HINGED LOOP		[illegible]	[illegible]
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY		[illegible]	[illegible]
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5	[illegible]	[illegible]
															1	FLIGHT-DATA BOOK		5	[illegible]
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		5	[illegible]
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		5	[illegible]
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		5	[illegible]
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		5	[illegible]
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		5	[illegible]
	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP		5	[illegible]
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		5	98
															1	LENS CLEANING KIT		5	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	5	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	5	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		5	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		5	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		5	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		5	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		5	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		5	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		5	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		5	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		5	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		5	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		5	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		5	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		5	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		5	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		5	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		5	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1699978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		5	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		5	77
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	5	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		5	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		6	74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		6	73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		6	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		[illegible]	71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	6	70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		6	69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	36	67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G & N PANEL		[illegible]	[illegible]
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G & N PANEL		[illegible]	65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		[illegible]	[illegible]
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		35	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		35	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		[illegible]	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		[illegible]	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		35	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		35	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		35	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		35	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		50	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1005707 - 021	1005707 - 021	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	56	32
	1003707 - 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003484 - 011	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003551	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004285	1004285	1004285	1004285	1004285	1004285	1004285	1004783	1004723	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 081	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 131	1003770 - 011	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's								25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 90 180, 169	175, 90, 123 180, 169	175, 90, 123, 180, 182, 183, 184, 187, 189, 169	175, 90, 160, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169	175, 90, 123, 180, 182, 183, 184, 187, 189 207	175, 90, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169	175, 90, 171, 80, 123, 182, 183, 184, 187, 189, 212, 169	83, 180, 90, 130, 137	180, 111, 114, 25, 90, 175, 130, 83, 160, 80, 137, 147, 171, 182 THRU 190, 208, 212, 195, 165, 169	25, 111, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169	175, 109, 111, 114, 130, 147	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

UNLESS OTHERWISE SPECIFIED

MATERIAL

NEXT ASSY | USED ON

APPLICATION

1014999 F1

REVISIONS 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	WK
J		REVISED PER TDRR 23205			[illegible]	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-13-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
DASH NO	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 2OF2 F-2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP CODE	FIND NO.
								2018898							1	WIRING HARNESS			[illegible]
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			[illegible]
								1010705 8							1	CLAMP LOOP			[illegible]
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			[illegible]
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

QTY REQD

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED
MIT
APPROVED
MSC

1014999 2OF2 F1

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10			1	CLAMP, HINGED LOOP		55	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	1899950-081	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3 (1)	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-011	1015056-011	1014606-021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G & N PANEL		50	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G & N PANEL		50	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007460-011	1021230-011	1007160	1007160	1007160	1007256-011	1	TRAY 10		45	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007400-011	1021207-011	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	[illegible]	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016908-011	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-021	1016903-021	1016905-021	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1003572-011	1003572-011	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003569-011	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	[illegible]	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-021	1003700-041	1003700-021	1003700-031	1003565-011	1003565-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-09	1003770-091	1003770-081	1003770-031	1003770-061	1003770-031	1003770-021	1003770-131	1003770-071	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S								25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP'S	75, 90, 80, 69, 74	75, 90, 23, 80, 69, 74	75, 90, 123, 180, [illegible] 83, 84, 187, 189, [illegible] 74	75, 90, 160, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174	175, 90, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 171, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	83, 180, 90, 130, 137	180, 165, 169, 25, 90, 175, 130, 83, 160, 80, 137, 174	25, 111, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174	175, 109, 111, 114, 130, 147	111, 114	25						
[illegible] DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
[illegible] SYSTEMS	24	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR C6407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/6/65	
J		REVISED PER TDRR 23208			10/13/65	
K		REVISED PER TDRR 23259			10/14/65	
L		REVISED PER TDRR 23508			10/20/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				

ND 1000000
NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED 15 Sept 65
APPROVED T.J. 16 Sept 65
APPROVED D. HOAG PER TDRR
APPROVED MIT M.C. 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

MASTER

1014999

F-2

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		5	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		5	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		5	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		5	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		5	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		5	100
	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP		5	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		5	98
															1	LENS CLEANING KIT		5	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	5	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	5	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		5	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		5	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		5	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		5	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		5	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		5	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		5	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		5	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		5	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		5	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		5	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		5	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		5	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		5	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		5	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		5	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		5	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		5	77
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	5	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		5	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP			74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		5	73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		5	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP			71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	5	70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		5	69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		5	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	5	67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G & N PANEL		0	66
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G & N PANEL		0	65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		0	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY			63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		0	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		0	61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		5	60
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		0	59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	0	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	0	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		5	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		5	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		5	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		5	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		5	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		5	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		5	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		5	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		5	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		5	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		5	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		5	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		5	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	5	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		0	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		0	41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		0	40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		0	39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		0	38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	0	37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	0	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		5	35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		0	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		5	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1003572 - 011	1003572 - 011	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	5	32
	1003707 - 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003569 - 011	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003570 - 011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 021	1003700 - 041	1003700 - 021	1003700 - 031	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 081	1003770 - 031	1003770 - 061	1003770 - 031	1003770 - 021	1003770 - 131	1003770 - 071	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's								25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 90 180, 169, 174	175, 90, 123 180, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 169, 174	175, 90, 160, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174	175, 90, 171, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 171, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	83, 180, 90, 130, 137	180, 165, 169, 25, 90, 175, 130, 83, 160, 80, 137, 174	25, 111, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174	175, 109, 111, 114, 130, 147	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN
TOLERANCES ON
FRACTIONS DECIMALS
± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

F-1

1014999

REVISIONS 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/8/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
ERAT ON DASH NO	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R. A. Jones
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
APPROVED MSC A. C. METZGER
DATE

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

MASTER

F2

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

								2018898							1	WIRING HARNESS			
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			
								1010705 8							1	CLAMP LOOP			
								1010705 -6							1	CLAMP LOOP			
								1010705 -5							1	CLAMP LOOP			
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

QTY REQD

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

F-1

1014999

								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	10-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		55	104
	591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10	1010400-10			1	CLAMP, HINGED LOOP		55	99
	7585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		65	93
	932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		65	91
	625-39 5	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		65	86
	899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	[illegible]	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	[illegible]	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		65	81
	[illegible]	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		65	80
	[illegible]	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	[illegible]	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	[illegible]	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	-081	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	[illegible]	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	3-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		56	74
	5-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		56	73
	[illegible]	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		56	72
	-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		56	71
	[illegible]	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3 (1)	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		56	69
	0-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		56	68
	[illegible]	1015086	1015086	1015086	1015086	1015086	1015086	1015056-011	1015056-011	1014606-021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	[illegible]	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G & N PANEL		50	66
	[illegible]	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G & N PANEL		50	65
	[illegible]	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		50	64
	532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	[illegible]	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		50	62
	64-02	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	[illegible]	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		50	60
	[illegible]	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	664	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	[illegible]	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	[illegible]	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	[illegible]	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007460-011	1021230-011	1007160	1007160	1007160	1007256-011	1°	TRAY 10		45	54
	[illegible]	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	[illegible]	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	[illegible]	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	[illegible]	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	[illegible]	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	[illegible]	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	74 011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	3-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	[illegible]	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	7 -011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007400-011	1021207-011	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D 440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	[illegible]	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016908-011	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-021	1016903-021	1016905-021	1016903-011	1016903-011	1016903-011	1016903-011		CDU AND PANEL ASSY	REFERENCE	40	36
	-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001-79	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	727	1005727	1005727	1005727	1005727	1005727	1005707-021	1003572-011	1003572-011	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	7-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	5-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	6995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	4669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	4670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	3706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	[illegible]	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	3734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	4728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	478	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	[illegible]	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	6996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	3700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	[illegible]	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
ORPORATED ECP'S				7		171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6, 25					
UTSTANDING ECP'S	75, 90, 80, 69, 74	75, 90, 23, 80, 69, 74	75, 90, 123, 180, [illegible] 183, 184, 187, 189, [illegible] 74	75, 90, 160, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174	175, 90, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	83, 180, 90, 130, 137	180, 165, 169, 25, 90, 130, 83, 160, 80, 137, 174	25, 111, 171, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147	111, 114	25						
FIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
SYSTEMS	24	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR 26407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/6/65	
J		REVISED PER TDRR 23208			10/8/65	
K		REVISED PER TDRR 23259			10/14/65	
L		REVISED PER TDRR 23502			10/20/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R	④	REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-28-65	

2H

Ⓗ REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NO 1000000

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DO NOT SCALE THIS DRAWING

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | J | 1014999

SHEET 1 OF 2

E-2

1014999

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	QUIP. CODE	FIND NO.
								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		5	105
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		5	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		5	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		5	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		5	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		5	100
	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10	1010400 - 10			1	CLAMP, HINGED LOOP		5	99
	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		5	98
															1	LENS CLEANING KIT		5	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	5	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	5	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		5	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		5	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		5	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		5	91
	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8	NAS 1352 C06 - 8		4	SCREW, SOC HD CAP		5	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		5	89
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		5	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		5	87
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		5	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		5	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		5	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		5	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		5	82
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		5	81
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		5	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		5	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		5	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		5	77
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	5	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	66
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	65
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1003572 - 011	1003572 - 011	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	56	32
	1003707 - 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003564 - 021	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80 (4)	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	MS 35337 - 80	2	WASHER, LOCK		5	30
	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807 (4)	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	MS 15795 - 807	2	WASHER, FLAT		5	29
	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD		5	28
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706 - 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003570 - 011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 061	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 081	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 101	1003770 - 131	1003770 - 131	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's				7		171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	QUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 90 180, 169, 174	175, 90, 123 180, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 169, 174	175, 90, 160, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174	175, 90, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	83, 180, 90, 130, 137	180, 165, 169, 25, 90, 130, 83, 160, 80, 137, 174	25, 111, 171, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED, PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED

NEXT ASSY | USED ON
APPLICATION

QTY REQD

F1

1014919

REVISIONS 06407						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	[illegible]
S		REVISED PER TDRR 24491	RAJ		12-6-65	[illegible]
T		REVISED PER TDRR 24674	RAJ		12-14-65	[illegible]
U		REVISED PER TDRR 24792	RAJ		12-20-65	[illegible]
V		REVISED PER TDRR 24938	RAJ		12-28-65	[illegible]

2H

								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
GURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	24	23	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R. A. Jones
CHECKED
APPROVED
APPROVED D HOAG
APPROVED MIT
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

F-2

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

								2018898								WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8								CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-001	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

—

QTY REQD

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED
APPROVED

1014999

							1010705 - 4							1	CLAMP LOOP			110
							1010400 - 9							1	CLAMP, HINGED LOOP			109
							1010400 - 4							2	CLAMP, HINGED LOOP			108
							2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
							2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
														1	FLIGHT-DATA BOOK		55	105
0 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
1469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
1470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
0400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
7585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
														1	LENS CLEANING KIT		55	97
2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
							1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
9994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975.	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
89971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
9997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
- 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
99980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
99978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
99974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
- 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
14609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
10705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
5 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
0 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
0400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
0400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
0400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
23002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	66
1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	65
3040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
14532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
14502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
5064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
4628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
5065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
4664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
15023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
8591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
08535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
7578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
7593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
7577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
7576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
7574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
7572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
6889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
5500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
15500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
16903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
- 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
							1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1003572 - 011	1003572 - 011	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
3707 - 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003564 - 021	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
5795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26 (4)	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	MS 16995 - 26	2	SCREW, SOC HD		5	28
04669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
04670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
3706 - 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003570 - 011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
4730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
4728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
10630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
04783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
6996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
													1003457	1	AGC CONN COVER PLATE		5	13
													1003180	1	AGC TOE PLATE		5	12
												1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
												AN 104608	AN 104608	4	SCREW, HEX HD		5	10
												AN 104606	AN 104606	4	SCREW, HEX HD		5	9
												1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
												1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
												1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
												1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
												1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
												1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
3700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 061	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
003770 - 091	1003770 - 091	1003770 - 081	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 101	1003770 - 131	1003770 - 131	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
ORPORATED ECP'S					171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175	20, 63, 96, 177	2, TD203	2, CO17	2, 3, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
TSTANDING ECP'S	175, 90, 80, 69, 74	175, 90, 123, 80, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 174	175, 90, 160, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174	175, 90, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	180, 90, 130, 137	180, 165, 169, 25, 90, 130, 83, 160, 80, 137, 174	25, 111, 171, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147	111, 114	25						
IGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000				
SYSTEMS	24	123	122	121	109	111	110	17	12	20	8	7	6	5				

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
		REVISIONS TDRR C6407				
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/8/65	
J		REVISED PER TDRR 23208			10/14/65	
K		REVISED PER TDRR 23259			10/19/65	
L		REVISED PER TDRR 23502			10/26/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	

2H

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.

MASTER

NO 1000000

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DRAWN

CHECKED

APPROVED

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999

SHEET 1 OF 2

F-2

								1010705 - 4							1	CLAMP LOOP			[illegible]
								1010400 - 9							1	CLAMP, HINGED LOOP			[illegible]
								1010400 - 4							2	CLAMP, HINGED LOOP			[illegible]
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			[illegible]
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		[illegible]
															1	FLIGHT-DATA BOOK		55	[illegible]
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	[illegible]
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	[illegible]
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	[illegible]
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	[illegible]
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	[illegible]
	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7			1	CLAMP, HINGED LOOP		55	[illegible]
	1007585 -011	1007585 -011	1007585 -011	1007585 -011	1007585 -011	1007585 -011	1007585 -011								1	TRACKER X & Y ASSY		55	[illegible]
															1	LENS CLEANING KIT		55	[illegible]
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	[illegible]
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	[illegible]
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	[illegible]
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 -000	1	SXT MIRROR HOUSING ASSY		65	[illegible]
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	[illegible]
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	[illegible]
	1011625 -39 (5)	1011625 -39 (5)	1011625 -39 (5)	1011625 -39 (5)	1011625 -39 (5)	1011625 -39 (5)	1011625 -39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	[illegible]
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	[illegible]
	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	[illegible]
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	[illegible]
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	[illegible]
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	[illegible]
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	[illegible]
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	[illegible]
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	[illegible]
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	[illegible]
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	[illegible]
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	[illegible]
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	[illegible]
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	[illegible]
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	[illegible]
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	[illegible]
	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	[illegible]
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	[illegible]
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	[illegible]
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	[illegible]
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	[illegible]
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	[illegible]
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	[illegible]
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	[illegible]
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	[illegible]
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	[illegible]
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	[illegible]
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	[illegible]
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	[illegible]
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	[illegible]
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	[illegible]
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	[illegible]
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	[illegible]
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	[illegible]
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	[illegible]
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	[illegible]
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	[illegible]
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	[illegible]
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	[illegible]
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	[illegible]
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	[illegible]
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	[illegible]
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	[illegible]
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	[illegible]
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	[illegible]
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	[illegible]
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	[illegible]
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	[illegible]
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	[illegible]
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	[illegible]
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	[illegible]
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	[illegible]
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	[illegible]
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	[illegible]
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	[illegible]
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	[illegible]
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	[illegible]
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	[illegible]
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1003572 - 011	1003572 - 011	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	[illegible]
	1003707 - 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003564 - 021	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	[illegible]
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	[illegible]
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	[illegible]
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	[illegible]
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	[illegible]
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	[illegible]
	1003706 - 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003570 - 011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	[illegible]
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 36C PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 061	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770 - 091	1003770 - 091	1003770 - 081	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 101	1003770 - 131	1003770 - 131	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP's						171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
OUTSTANDING ECP's	175, 90 180, 169, 174	175, 90, 123 180, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 169, 174	175, 90, 160, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174	175, 90, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174	175, 90, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	180, 90, 130, 137	180, 165, 169, 25, 90, 130, 83, 160, 80, 132, 174	25, 111, 171, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.

MASTER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY USED ON
APPLICATION

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/5/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	

										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 - 6							1	CLAMP LOOP			112
								1010705 - 5							1	CLAMP LOOP			111
GURAT ON DASH N.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

2H

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. A. Jones
CHECKED
APPROVED
APPROVED D. HOAG for
APPROVED MIT
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

MASTER

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					
										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111

QTY REQD | PART OR IDENTIFYING NO.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION
CAMBRIDGE

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED NASA

F-1

								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	0 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	[illegible]	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	146	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	0400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7			1	CLAMP, HINGED LOOP		55	99
	7585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011	1007585 - 011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	32	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	2 407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BYPASS		65	89
	- 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	[illegible]	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	[illegible]	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	[illegible]	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
	[illegible]	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
	[illegible]	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	[illegible]	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	- 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	[illegible]	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
	[illegible]	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
	[illegible]	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
	[illegible]	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	- 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	- 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	- 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
	- 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
	- 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	- 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	- 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	- 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	[illegible]	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	- 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50	66
	- 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50	65
	[illegible]	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
	4532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	- 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	5064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50	61
	- 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	5065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50	59
	4664	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	- 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	[illegible]	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	[illegible]	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	- 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	[illegible]	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	- 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	- 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	- 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	- 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	- 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	- 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	- 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	- 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	[illegible]	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	- 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	- 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	- 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	16885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	[illegible]	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	- 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	- 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1003572 - 011	1003572 - 011	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55	32
	- 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003564 - 021	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	5-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	6995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	4669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	4670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	- 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003570 - 011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	[illegible]	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	3734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	4728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	- 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	- 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	[illegible]	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	[illegible]	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	3735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	- 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	3700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 061	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	0037 0 - 09	1003770 - 091	1003770 - 081	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 101	1003770 - 131	1003770 - 131	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
CORPORATED ECP'S						171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
JTSTANDING ECP'S	75, 90, 80, 69, 74, 2, 246	75, 90, 23, 80, 69, 74, 211, 246	175, 90, 123, 180, 183, 184, 187, 189, 174, 211, 246.	175, 90, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174,	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 246.	175, 90, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246	175, 90, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	84, 180, 90, 130, 137, 246, 251	180, 165, 169, 25, 90, 84, 130, 83, 160, 80, 137, 174, 211, 246	25, 111, 171, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147	111, 114	25						
IGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

REVISIONS TDRR C6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/8/65	
J		REVISED PER TDRR 23203			10/13/65	
K		REVISED PER TDRR 23259			10/14/65	
L		REVISED PER TDRR 23502			10/26/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R		REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24938	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	

2H

(H) REPLACES REV G WITH CHANGE

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 1000000

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED 15 Sept
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 1 OF 2

E2

[illegible]

								1010705 - 4							1	CLAMP LOOP		
								1010400 - 9							1	CLAMP, HINGED LOOP		
								1010400 - 4							2	CLAMP, HINGED LOOP		
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY		
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5	
															1	FLIGHT-DATA BOOK		55
	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55
	1010400 -7	1010400-7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7			1	CLAMP, HINGED LOOP		55
	1007585 -011	1007585-011	1007585-011	1007585 -011	1007585 -011	1007585 -011	1007585 -011								1	TRACKER X & Y ASSY		55
															1	LENS CLEANING KIT		55
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65
	1011625 -39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 -39 (5)	1011625 -39 (5)	1011625 -39 (5)	1011625 -39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65
	1899994 - 011	1899994 - 011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 -011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65
	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65
	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65
	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65
	1899950 - 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56
	1010705 -6	1010705 -6	1010705 -6	1010705 -6	1010705 -6	1010705 -6	1010705 -6								1	CLAMP LOOP		56
	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56
	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56
	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56
	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56
	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56
	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56
	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G&N PANEL		50
	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G&N PANEL		50
	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50
	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50
	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		50
	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50
	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		50
	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50
	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45
	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007460 - 011	1021230 - 011	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45
	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45
	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45
	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45
	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45
	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45
	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45
	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45
	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45
	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45
	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45
	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007400 - 011	1021207 - 011	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40
	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40
	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40
	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40
	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40
	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40
	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35
	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15
	1005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1003572 - 011	1003572 - 011	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	55
	1003707 - 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003564 - 021	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5
	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5
	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5
	1003706 - 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003570 - 011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5
	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5
	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5
	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5
	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5
														1003457	1	AGC CONN COVER PLATE		5
														1003180	1	AGC TOE PLATE		5
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5
													AN 104608	AN 104608	4	SCREW, HEX HD		5
													AN 104606	AN 104606	4	SCREW, HEX HD		5
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5
													1003197 - 011	1003197	1	G&N HARNESS TRAY ASSY		5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5
	1003700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 061	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5
	1003770 - 091	1003770 - 091	1003770 - 081	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 101	1003770 - 131	1003770 - 131	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5
INCORPORATED ECP's				7		171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175	20, 63, 96, 177	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE
OUTSTANDING ECP's	175, 90 180, 169, 174, 211, 246	175, 90, 123, 180, 169, 174, 211, 246	175, 90, 123, 180, 182, 183, 184, 187, 189, 169, 174, 211, 246,	175, 90, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 246.	175, 90, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246	175, 90, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	84, 180, 90, 130, 137, 246, 251	180, 165, 169, 25, 90, 84, 130, 83, 160, 80, 137, 174, 211, 246	25, 111, 171, 114, 175, 130, 160, 80, 109, 147, 159, 116, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147	111, 114	25					
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000				
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5				

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.

MASTER

ND 1000000

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

QTY REQD | PART OR IDENTIFYING NO

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRN
CHKD
APPD
APPD

REVISIONS 06407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			10/4/65	WK
J		REVISED PER TDRR 23205			10/11/65	WK
K		REVISED PER TDRR 23259			10/19/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12-28-65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-26-66	WK

										1008268					1	WIRE HARNESS "G"	SEE NOTE 9		116
								2018938							1	WIRING HARNESS			115
								100[illegible]4[illegible]6 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
GURAT ON DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.A. Jones
CHECKED
APPROVED
APPROVED D. HOAG for J. Miller
APPROVED MIT
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

E2

FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION
32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24

TABLE I (SEE NOTE 4)

CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
										1008268					1	WIRE HARNESS G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

QTY REQD | PART OR IDENTIFYING NO.

MIT
INSTRUMENTATION
CAMBRIDGE MASS

DRAWN R. A. Jones
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED NSC

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705 - 4							1	CLAMP LOOP			110
								1010400 - 9							1	CLAMP, HINGED LOOP			109
								1010400 - 4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		55	105
	0 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1000110 - 307	1	SCREW, SOC HD		55	104
	591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		55	103
	293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		55	102
	469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		55	101
	470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		55	100
	400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7	1010400 -7			1	CLAMP, HINGED LOOP		55	99
	7585 -011	1007585 -011	1007585 -011	1007585 -011	1007585 -011	1007585 -011	1007585 -011								1	TRACKER X & Y ASSY		55	98
															1	LENS CLEANING KIT		55	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	65	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	65	95
	734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		65	94
	786	2011786	2011786	2011786	2011786	2011786	2011786	1011786 - 001	1011786 - 001	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1011786 - 000	1	SXT MIRROR HOUSING ASSY		65	93
	932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		65	92
	960	2011960	2011960	2011960	2011960	2011960	2011960	1011960 - 001	1011960 - 001	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1011960 - 000	1	SCT EYEPIECE ASSY		65	91
	625 -39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	1011625 - 39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		65	90
	407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		65	89
	-011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	1899994 - 011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		65	88
	516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		65	87
	-001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	1010728 - 001	NAS 145 - 11	2	BOLT, HEX HD		65	86
	899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		65	85
		1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		65	84
		1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		65	83
	828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		65	82
	- 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899997 - 002	1899954 - 002	1	SEAL, SXT BELLOWS		65	81
	- 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899997 - 001	1899954 - 001	1	SEAL, SCT, BELLOWS		65	80
		1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		65	79
		1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		65	78
		1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		65	77
	- 081	1899950 - 081	1899950 - 081	1899950 - 061	1899950 - 081	1899950 - 071	1899950 - 071	1899950 - 031	1899950 - 031	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 021	1899950 - 011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	65	76
	4609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		56	75
	- 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6	1010705 - 6								1	CLAMP LOOP		56	74
	5 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1010705 - 8	1	CLAMP LOOP		56	73
	- 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1010400 - 8	1	CLAMP, HINGED LOOP		56	72
	- 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1010400 - 7	1	CLAMP, HINGED LOOP		56	71
	400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3 (1)	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	1010400 - 3	3	CLAMP, HINGED LOOP	SEE NOTE 5	56	70
	400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1010400 - 2	1	CLAMP, HINGED LOOP		56	69
	400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	1010400 - 1	5	CLAMP, HINGED LOOP		56	68
	15086	1015086	1015086	1015086	1015086	1015086	1015086	1015056 - 011	1015056 - 011	1014606 - 021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	56	67
	23002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002	1023002 - 002								1	LONG HANDLE, G & N PANEL		50	66
	023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001	1023002 - 001								1	SHORT HANDLE, G & N PANEL		50	65
	040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011	1023040 - 011			1023014 - 011					1	CONDITION ANNUNCIATOR ASSY		50	64
	14532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		50	63
	4502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1014502 - 011	1	OPTICS SHROUD ASSY		50	62
	5064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 021	1015064 - 011	1015064 - 011	1015064 - 011	1015003	1015003	1015003	1015003	1	CONTROL-ELECTRONICS ASSY		50	61
	4628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1014628 - 011	1015095 - 011	1015095 - 011	1014526 - 031	1014526 - 011	1014526 - 011	1014526 - 011	1014526 - 011	1	IMU CONTROL PANEL ASSY		50	60
	5065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 041	1015065 - 021	1015065 - 011	1015065 - 011	1015065 - 031	1007059	1007059	SK 44633	SK 44633	1	D & C ELECTRONICS ASSY		50	59
	4664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1014664 - 011	1015053 - 011	1015053 - 011	1014578 - 041	1014578 - 011	1014578 - 011	1014578 - 011	1014578 - 011	1	G & N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	50	58
	5023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 021	1015023 - 011	1015023 - 011	1014513 - 031	1014513 - 000	1014513 - 000	1014513 - 000	1014513 - 000		DISPLAY AND CONTROL GROUP	REFERENCE	50	57
	591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		45	56
	8535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		45	55
	7580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007580 - 011	1007256 - 021	1007256 - 021	1007256 - 021	1007160	1007160	1007160	1007256 - 011	1	TRAY 10		45	54
	7579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007579 - 011	1007459 - 011	1007459 - 011	1021229 - 011	1007179	1007159	1007159	1007159	1	TRAY 9		45	53
	7578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007578 - 011	1007458 - 011	1007458 - 011	1021228 - 011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	7593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007593 - 011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 011	1007577 - 021	1007577 - 021	1021227 - 011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	7576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007576 - 011	1007456 - 011	1007456 - 011	1021226 - 011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	7575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 011	1007575 - 021	1007575 - 021	1021225 - 011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	7574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 011	1007574 - 021	1007574 - 021	1021224 - 011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	7573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 011	1007573 - 021	1007573 - 021	1021223 - 011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	7572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 011	1007572 - 021	1007572 - 021	1021222 - 011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	7571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 011	1007571 - 021	1007571 - 021	1021221 - 011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	7570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007570 - 011	1007257 - 041	1007257 - 041	1007257 - 031	1007170	1007267	1007100	1007257 - 011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	AN 365D - 440	10	NUT, SPECIAL STUD		40	42
	6889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	5500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031	1015500 - 031								2	CDU ASSY		40	40
	5500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021 (3)	1015500 - 021	1015500 - 021	1015500 - 021	1015500 - 011	1015500 - 011	1015500 - 011	1015500 - 011	5	CDU ASSY		40	39
	7538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 021	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1017538 - 011	1	CDU PANEL ASSY		40	38
	6885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016885 - 021	1016908 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1016885 - 011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	16903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 031	1016903 - 021	1016903 - 021	1016905 - 021	1016903 - 011	1016903 - 011	1016903 - 011	1016903 - 011		CDU AND PANEL ASSY	REFERENCE	40	36
	1500 - 031	1001500 - 031	1001500 - 031	1001500 - 031	1001500 - 021	1001500 - 021	1001500 - 021	1001500 - 011	1001500 - 011	1001479	1000201	1000201	1000201	1000201	1	IMU ASSY		35	35
	7700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 031	1007700 - 011	1007700 - 021	1007121	1007121	1007121	1007121	1007121	1	SIGNAL CONDITIONER ASSY		30	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	005727	1005727	1005727	1005727	1005727	1005727	1005707 - 021	1003572 - 011	1003572 - 011	1005707 - 011	1005707 - 011	1005707 - 021			1	WIRING HARNESS, AGC TO PSA/G & N TO SC	SEE NOTE 4	55	32
	- 031	1003707 - 031	1003707 - 021	1003707 - 011	1003707 - 011	1003707 - 011	1003707 - 011	1003564 - 021	1003564 - 021	1003484 - 011	1003540 - MD 1	1003553 - 011	1003495 - 011	1003459 - MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	5795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	6995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	4669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004669 - 011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	4670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	3706 - 031	1003706 - 031	1003706 - 021	1003706 - 011	1003706 - 011	1003706 - 011	1003706 - 011	1003570 - 011	1003570 - 011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	4728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808	MS 15795 - 808			2	WASHER, FLAT		5	21
	630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40	1010630 - 40			8	SCREW, FLAT HD HEX SOC		5	20
	630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39	1010630 - 39			2	SCREW, FLAT HD HEX SOC		5	19
	4783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	3730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	3735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	[illegible]	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	6 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10	MS 16996 - 10			4	SCREW, SOC HD HEX		5	15
	- 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13	MS 16996 - 13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630 - 38	1010630 - 38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN 104608	4	SCREW, HEX HD		5	10
													AN 104606	AN 104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630 - 58	1010630 - 58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489 - 011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197 - 011	1003197	1	G & N HARNESS TRAY ASSY		5	5
													1003493 - 011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488 - 011	1003187	1	LOGIC TRAY A ASSY		5	3
	3700 - 051	1003700 - 051	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 041	1003700 - 061	1003565 - 011	1003565 - 011	1003700 - 011	1003700 - 011	1003700 - 011	1003496 - 011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	- 09	1003770 - 091	1003770 - 081	1003770 - 061	1003770 - 061	1003770 - 061	1003770 - 101	1003770 - 131	1003770 - 131	1003770 - 011	1003770 - 041	1003770 - 051	1003497 - 011	1003400 - 1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
ORPORATED ECP'S				[illegible]		171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175, 25, 83, 160, 219,	20, 63, 96, 177, 25, 116, 160	2, TD203	2, CO17	2, 9, 6	6, 25	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
TSTANDING ECP'S	75, 90, 80, 69, 74, 2 , 246	75, 90, 23, 180, 69, 174, 211, 246	75, 90, 123, 180, 183, 184, 187, 189, 174, 211, 246.	175, 90, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, [illegible], 219	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 246.	175, 90, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246	175, 90, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	84, 180, 90, 130, 137, 246, 251	180, 165, 169, 90, 84, 130, 80, 137, 174, 211, 246	111, 171, 114, 175, 130, 80, 109, 147, 159, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147	111, 114	25						
DASH- NO.	-1[illegible]	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
N SYSTEMS	24	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G & N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

REVISIONS TDRR C6407

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22904			[illegible]	
J		REVISED PER TDRR 23208			[illegible]	
K		REVISED PER TDRR 23259			[illegible]	
L		REVISED PER TDRR 23508			10/26/65	
M		REVISED PER TDRR 23620	RAJ		11-2-65	
N		REVISED PER TDRR 23926	RAJ		11-9-65	
P		REVISED PER TDRR 24056	RAJ		11-18-65	
R	Ⓗ	REVISED PER TDRR 24370	RAJ		12-3-65	
S		REVISED PER TDRR 24491	RAJ		12-6-65	
T		REVISED PER TDRR 24674	RAJ		12-13-65	
U		REVISED PER TDRR 24792	RAJ		12-20-65	
V		REVISED PER TDRR 24933	RAJ		12-28-65	
W		REVISED PER TDRR 25324	RAJ		1-17-66	
Y		REVISED PER TDRR 25525	RAJ		1-28-66	
Z		REVISED PER TDRR 25812	RAJ		2-7-66	

Ⓗ REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

ND 1000000

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED D. HOAG PER TDRR
APPROVED MIT 15 Sept 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION LIST
APOLLO GUIDANCE EQUIPMENT
BLOCK I

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 1014999

SCALE — | SHEET 1 OF 2

E-2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

															QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
								1010705-4							1	CLAMP LOOP			110
								1010400-9							1	CLAMP, HINGED LOOP			109
								1010400-4							2	CLAMP, HINGED LOOP			108
								2007208							1	AIRBORNE AMPLIFIER PLATE ASSY			107
								2018899							1	AIRBORNE VIBRATION ASSY	SEE NOTES 4 & 5		106
															1	FLIGHT-DATA BOOK		5	105
	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1000110-307	1	SCREW, SOC HD		5	104
	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1001591	1	BRACKET ASSY, COOLANT		5	103
	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1000293	1	CLAMP, COOLANT LINE		5	102
	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1001469	1	HOSE ASSY, FLEX, OPT TO S/C		5	101
	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1001470	1	HOSE ASSY, FLEX, IMU TO S/C		5	100
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7			1	CLAMP, HINGED LOOP		5	99
	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011	1007585-011								1	TRACKER X & Y ASSY		5	98
															1	LENS CLEANING KIT		5	97
	2011788	2011788	2011788	2011788	2011788	2011788	2011788	1011788	1011788	1011788	1011788	1011788	1011788	1011788	1	LONG EYE RELIEF EYEPIECE SCT	SEE NOTE 6	5	96
								1011787	1011787	1011787	1011787	1011787	1011787	1011787	1	LONG EYE RELIEF EYEPIECE SXT	SEE NOTE 6	6	95
	2011734	2011734	2011734	2011734	2011734	2011734	2011734	1011734	1011734	1011734	1011734	1011734	1011734	1011734	1	SCT PRISM HOUSING ASSY		5	94
	2011786	2011786	2011786	2011786	2011786	2011786	2011786	1011786-001	1011786-001	1011786-000	1011786-000	1011786-000	1011786-000	1011786-000	1	SXT MIRROR HOUSING ASSY		5	93
	2011932	2011932	2011932	2011932	2011932	2011932	2011932	1011932	1011932	1011932	1011932	1011932	1011932	1011932	1	SXT EYEPIECE ASSY		5	92
	2011960	2011960	2011960	2011960	2011960	2011960	2011960	1011960-001	1011960-001	1011960-000	1011960-000	1011960-000	1011960-000	1011960-000	1	SCT EYEPIECE ASSY		5	91
	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	1011625-39 (5)	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8	NAS 1352 C06-8		4	SCREW, SOC HD CAP		5	90
	1021407	1021407	1021407	1021407	1021407	1021407	1021407	1021414	1021414	1021414	1021414	1021414	1021414		1	ADAPTER PLATE ASSY COOLANT HOSE BY PASS		5	89
	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	1899994-011	2	FRONT ISOLATOR LOCKOUT PIN ASSY		5	88
	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	AN 960 C 516 L	6	WASHER, FLAT		6	87
	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	1010728-001	NAS 145-11	2	BOLT, HEX HD		5	86
	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1899975	1	SNUBBER, REAR (INSEPARABLE) ASSY		5	85
	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1010827	1899969	1899969	1899969	1899969	1899969	1	MOUNT, RESILIENT, REAR		5	84
	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	1899971	6	SPRING, SEAL RETAINING		5	83
	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1010828	1899970	1899970	1899970	1899970	1899970	2	MOUNT, RESILIENT FRONT		5	82
	1899997-002	1899997-002	1899997-002	1899997-002	1699997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899997-002	1899954-002	1	SEAL, SXT BELLOWS		5	81
	1699997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899997-001	1899954-001	1	SEAL, SCT, BELLOWS		5	80
	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	1899980	3	BOLT, HEX HD		5	79
	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1899978	1	SNUBBER, FRONT, RH ASSY (INSEPARABLE) ASSY		5	78
	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1899974	1	SNUBBER, FRONT, LH ASSY (INSEPARABLE) ASSY		5	77
	1899950-081	1899950-081	1899950-081	1899950-061	1899950-081	1899950-071	1899950-071	1899950-031	1899950-031	1899950-021	1899950-021	1899950-021	1899950-021	1899950-011	1	NAV BASE AND OPTICAL UNIT ASSY	SEE NOTE 4	5	76
	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1014609	1	BRACKET CLAMP (INSEPARABLE ASSY)		16	75
	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6	1010705-6								1	CLAMP LOOP		16	74
	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1010705-8	1	CLAMP LOOP		16	73
	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1010400-8	1	CLAMP, HINGED LOOP		16	72
	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1010400-7	1	CLAMP, HINGED LOOP		16	71
	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3 (1)	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	1010400-3	3	CLAMP, HINGED LOOP	SEE NOTE 5	16	70
	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1010400-2	1	CLAMP, HINGED LOOP		16	69
	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	1010400-1	5	CLAMP, HINGED LOOP		16	68
	1015086	1015086	1015086	1015086	1015086	1015086	1015086	1015056-011	1015056-011	1014606-021	1014606	1014606	1014606	1014606	1	AGE HARNESS AND PSA END CONNECTOR ASSY	SEE NOTE 4	16	67
	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002	1023002-002								1	LONG HANDLE, G&N PANEL		[illegible]	66
	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001	1023002-001								1	SHORT HANDLE, G&N PANEL		10	65
	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011	1023040-011			1023014-011					1	CONDITION ANNUNCIATOR ASSY		10	64
	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1014532	1	OPTICS COVER ASSY		10	63
	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1014502-011	1	OPTICS SHROUD ASSY		10	62
	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-021	1015064-011	1015064-011	1015064-011	1015003	1015003	1015003	1015003	1	CONTROL ELECTRONICS ASSY		10	61
	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1014628-011	1015095-011	1015095-011	1014526-031	1014526-011	1014526-011	1014526-011	1014526-011	1	IMU CONTROL PANEL ASSY		10	60
	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-041	1015065-021	1015065-011	1015065-011	1015065-031	1007059	1007059	SK 44633	SK 44633	1	D&C ELECTRONICS ASSY		10	59
	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1014664-011	1015053-011	1015053-011	1014578-041	1014578-011	1014578-011	1014578-011	1014578-011	1	G&N INDICATOR AND CONTROL PANEL ASSY	SEE NOTE 4	10	58
	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-021	1015023-011	1015023-011	1014513-031	1014513-000	1014513-000	1014513-000	1014513-000		DISPLAY AND CONTROL GROUP	REFERENCE	10	57
	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	1008591	6	SCREW REWORKED		35	56
	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008535	1008135	1008135	1008135	1008135	1008135	1	TOE CAP		35	55
	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007580-011	1007256-021	1007256-021	1007256-021	1007160	1007160	1007160	1007256-011	1	TRAY 10		35	54
	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007579-011	1007459-011	1007459-011	1021229-011	1007179	1007159	1007159	1007159	1	TRAY 9		[illegible]	53
	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007578-011	1007458-011	1007458-011	1021228-011	1007178	1007271	1007158	1007158	1	TRAY 8		45	52
	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007593-011	1007163	1007163	1007163	1007163	1007163	1007114	1007114	1	SHORTING PLUG		45	51
	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-011	1007577-021	1007577-021	1021227-011	1007177	1007270	1007157	1007157	1	TRAY 7		45	50
	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007576-011	1007456-011	1007456-011	1021226-011	1007176	1007269	1007156	1007156	1	TRAY 6		45	49
	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-011	1007575-021	1007575-021	1021225-011	1007175	1007268	1007155	1007155	1	TRAY 5		45	48
	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-011	1007574-021	1007574-021	1021224-011	1007262	1007262	1007154	1007154	1	TRAY 4		45	47
	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-011	1007573-021	1007573-021	1021223-011	1007260	1007260	1007153	1007153	1	TRAY 3		45	46
	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-011	1007572-021	1007572-021	1021222-011	1007152	1007152	1007152	1007152	1	TRAY 2		45	45
	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-011	1007571-021	1007571-021	1021221-011	1007151	1007151	1007151	1007151	1	TRAY 1		45	44
	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007570-011	1007257-041	1007257-041	1007257-031	1007170	1007267	1007100	1007257-011		POWER AND SERVO ASSY	REFERENCE	45	43
	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	AN 365D-440	10	NUT, SPECIAL STUD		40	42
	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	1016889	10	STUD, SPECIAL		40	41
	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031	1015500-031								2	CDU ASSY		40	40
	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021 (3)	1015500-021	1015500-021	1015500-021	1015500-011	1015500-011	1015500-011	1015500-011	5	CDU ASSY		40	39
	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-021	1017538-011	1017538-011	1017538-011	1017538-011	1017538-011	1	CDU PANEL ASSY		40	38
	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016885-021	1016908-011	1016885-011	1016885-011	1016885-011	1016885-011	1	CDU FRAME ASSY	SEE NOTE 4	40	37
	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-031	1016903-021	1016903-021	1016905-021	1016903-011	1016903-011	1016903-011	1016903-011		CD[illegible]ND PANEL ASSY	REFERENCE	40	36
	1001500-031	1001500-031	1001500-031	1001500-031	1001500-021	1001500-021	1001500-021	1001500-011	1001500-011	1001479	1000201	1000201	1000201	1000201	1	I[illegible]SY		35	35
	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-031	1007700-011	1007700-021	1007121	1007121	1007121	1007121	1007121	1	SI[illegible]L CONDITIONER ASSY		[illegible]	34
								1012136	1012136		1012136	1012136	1011559	1011559	1	MAP AND DATA VIEWER		15	33
	1005727	1005727	1005727	1005727	1005727	1005727	1005707-021	1003572-011	1003572-011	1005707-011	1005707-011	1005707-021			1	WIRING HARNESS, AGC TO PSA/G&N TO SC	SEE NOTE 4	35	32
	1003707-031	1003707-031	1003707-021	1003707-011	1003707-011	1003707-011	1003707-011	1003564-021	1003564-021	1003484-011	1003540-MD 1	1003553-011	1003495-011	1003459-MD 2	1	AGC MAIN DSKY		5	31
	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80 (4)	MS 35337-80	MS 35337-80	MS 35337-80	MS 35337-80	2	WASHER, LOCK		5	30
	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807 (4)	MS 15795-807	MS 15795-807	MS 15795-807	MS 15795-807	2	WASHER, FLAT		5	29
	MS 16995-26 (4)	MS 16995-26 (4)	MS 15995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26 (4)	MS 16995-26	MS 16995-26	MS 16995-26	MS 16995-26	2	SCREW, SOC HD		5	28
	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004669-011	1004609	1004609	1004609	1004609	1	FLANGE		5	27
	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004670	1004607	1004607	1004607	1004607	1	BRACKET ANGLE		5	26
	1003706-031	1003706-031	1003706-021	1003706-011	1003706-011	1003706-011	1003706-011	1003570-011	1003570-011	1003551	1003524 MD 1	1003524 MD 1	1003458 MD 1	1003458 MD 1	1	AGC NAV DSKY	SEE NOTE 4	5	25
	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730	1004730			1	GASKET, 360 PIN CONNECTOR		5	24
	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734	1003734			1	FRONT PANEL MOUNT ASSY, LEFT SIDE		5	23
	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728	1004728			1	SHIELD, STANDBY SWITCH, AGC		5	22
	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808	MS 15795-808			2	WASHER, FLAT		5	21
	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40	1010630-40			8	SCREW, FLAT HD HEX SOC		5	20
	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39	1010630-39			2	SCREW, FLAT HD HEX SOC		5	19
	1004783	1004783	1004285	1004285	1004285	1004285	1004285	1004783	1004783	1004723	1004723	1004723			1	FRONT CLOSE OUT PANEL		5	18
	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730	1003730			1	SUPPORT FRONT PANEL		5	17
	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735	1003735			1	FRONT PANEL MOUNT ASSY, RIGHT SIDE		5	16
	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10	MS 16996-10			4	SCREW, SOC HD HEX		5	15
	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13	MS 16996-13			2	SCREW, SOC HD HEX		5	14
														1003457	1	AGC CONN COVER PLATE		5	13
														1003180	1	AGC TOE PLATE		5	12
													1010630-38	1010630-38	4	SCREW, FLAT HD HEX SOC		5	11
													AN 104608	AN104608	4	SCREW, HEX HD		5	10
													AN 104606	AN104606	4	SCREW, HEX HD		5	9
													1004272	1004272	4	BRACKET, COMP END CONN UPPER BRACE		5	8
													1010630-58	1010630-58	14	SCREW, FLAT HD HEX SOC		5	7
													1003489-011	1003189	1	AGC END CONNECTOR ASSY		5	6
													1003197-011	1003197	1	G&N HARNESS TRAY ASSY		5	5
													1003493-011	1003184	1	MEMORY TRAY B ASSY		5	4
													1003488-011	1003187	1	LOGIC TRAY A ASSY		5	3
	1003700-051	1003700-051	1003700-041	1003700-041	1003700-041	1003700-041	1003700-061	1003565-011	1003565-011	1003700-011	1003700-011	1003700-011	1003496-011 MD 1	1003186 MD 2	1	APOLLO GUIDANCE COMPUTER	SEE NOTE 4	5	2
	1003770-091	1003770-091	1003770-081	1003770-061	1003770-061	1003770-061	1003770-101	1003770-131	1003770-131	1003770-011	1003770-041	1003770-051	1003497-011	1003400-1		APOLLO GUIDANCE COMPUTER GROUP	REFERENCE	5	1
INCORPORATED ECP'S				7		171	171	25, 177, 147, 109, 111, 114, 171, 182, 183, 184, 185, 186, 187, 188, 189, 190, 195, 208, 212, 175	177, 147, 111, 114, 171, 182 THRU 190, 195, 208, 212, 175, 25, 83, 160, 219,	20, 63, 96, 177, 25, 116, 160	2, TD203	2, CO17	2, 9, 6	6, 25					
OUTSTANDING ECP'S	175, 90 180, 169, 174, 211, 246	175, 90, 123, 180, 169, 174, 211, 246	175, 90, 123, 180, 182, 183, 184, 187, 189, 69 174, 211, 246.	175, 90, 160, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246, 219	175, 90, 123, 180, 182, 183, 184, 187, 189, 207, 174, 211, 246.	175, 90, 211, 80, 123, 180, 182, 183, 184, 187, 189, 207, 169, 174, 246	175, 90, 246, 80, 123, 182, 183, 184, 187, 189, 212, 169, 174	84, 180, 90, 130, 137, 246, 251	180, 165, 169, 90, 84, 130, 80, 137, 174, 211, 246	111, 171, 114, 175, 130, 80, 109, 147, 159, 180, 182, 183, 184, 185, 187, 188, 189, 195, 208, 212, 169, 174, 223	175, 109, 111, 114, 130, 147	111, 114	25						
CONFIGURATION DASH NO.	-121	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000					
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

NOTES

1. THIS DRAWING DEFINES TOTAL G&N SYSTEMS IN TERMS OF IDENTIFIABLE, SEPARATELY INSTALLED, PIECES OR SEPARATE PARTS.
2. NUMBER IN PARENTHESIS FOLLOWING A PART NUMBER, INDICATES QUANTITY OF THAT PART.
3. OUTSTANDING ECP'S ARE THOSE THAT HAVE BEEN APPROVED, BUT NOT INCORPORATED. PART NUMBERS REFLECT CONFIGURATION CHANGES AS A RESULT OF INCORPORATED ECP'S.
4. PARTS REMOVED FROM FIND NUMBERS 2, 25, 37, 67, 76, 58, 106 AND 32, FOR SHIPPING AND/OR INSTALLATION ARE LISTED IN TABLE I
5. INSTALLATION OF AIRBORNE VIBRATION ASSY REQUIRES THE REMOVAL OF 2 CLAMPS 1010400-3.
6. OPTIONAL EQUIPMENT FOR USE WITH OPTICAL UNIT.
7. THE FOLLOWING INCORPORATED ECP'S DO NOT REFLECT PART NUMBER CHANGES. PART NUMBERS WILL BE CHANGED AS SOON AS THIS INFORMATION IS AVAILABLE: 177.
8. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
9. REQUIRED FOR THERMAL VACUUM TEST.
10. K START TAPE ASSEMBLY FOR USE AT NAA. USE REVISION INDICATED.

NEXT ASSY USED ON

APPLICATION

E-1

REVISIONS		06407				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		REPLACES REV G WITH CHANGE PER TDRR 22984			10/?/65	WK
J		REVISED PER TDRR 23205			10/13/65	WK
K		REVISED PER TDRR 23259			10/13/65	WK
L		REVISED PER TDRR 23502			10/26/65	WK
M		REVISED PER TDRR 23620	RAJ		11-2-65	WK
N		REVISED PER TDRR 23926	RAJ		11-9-65	WK
P		REVISED PER TDRR 24056	RAJ		11-18-65	WK
R		REVISED PER TDRR 24370	RAJ		12-3-65	WK
S		REVISED PER TDRR 24491	RAJ		12-6-65	WK
T		REVISED PER TDRR 24674	RAJ		12-14-65	WK
U		REVISED PER TDRR 24792	RAJ		12-20-65	WK
V		REVISED PER TDRR 24938	RAJ		12 28 65	WK
W		REVISED PER TDRR 25324	RAJ		1-17-66	WK
Y		REVISED PER TDRR 25525	RAJ		1-28-66	WK
Z		REVISED PER TDRR 25812	RAJ		2-7-66	WK

							1026009 REV -		1026010 REV -					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	55	121
							1026004 REV -		1026005 REV -					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	55	120
							1026003 REV -		1026008 REV -					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	55	119
							1026002 REV -		1026007 REV -					1	G&N POLARITY TEST	SEE NOTE 10	55	118
							1026001 REV -		1026006 REV -					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	55	117
									1008268					1	WIRE HARNESS G	SEE NOTE 9		116
							2018898							1	WIRING HARNESS			115
							1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
							1010705 8							1	CLAMP LOOP			113
							1010705 -6							1	CLAMP LOOP			112
							1010705 -5							1	CLAMP LOOP			111
FIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G&N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

THIS SHEET ADDED

(H) REPLACES REV G WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED D. HOAG
APPROVED MIT
A. C. [illegible]
APPROVED MSC
DATE

INSTALLATION LIST APOLLO GUIDANCE EQUIPMENT BLOCK I

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 1014999
SCALE —
SHEET 2 OF 2

1014999 Z

MASTER

E-2

NOTICE – WHEN GOVERNMENT OR OTHER DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

32	WIRING HARNESS, AGC TO PSA/G&N TO SC	99
106	AIRBORNE VIBRATION ASSY	107 THRU 115
58	G&N INDICATOR & CONTROL PANEL ASSY	65 AND 66
76	NAV BASE & OPTICAL UNIT ASSY	77 THRU 96
67	AGE HARNESS & PSA END CONNECTOR ASSY	68 THRU 75
37	CDU FRAME ASSY	41 AND 42
25	AGC NAV DSKY	26 THRU 30
2	APOLLO GUIDANCE COMPUTER	3 THRU 24
FIND NO.	NOMENCLATURE OR DESCRIPTION	ITEMS REMOVED FOR SHIPPING AND/OR INSTALLATION

TABLE I (SEE NOTE 4)

								1026009 REV –		1026010 REV –					1	AGC CLOCK ALIGNMENT TEST	SEE NOTE 10	35	121
								1026004 REV –		1026005 REV –					1	G&N SCS ATT. CONTROL INTERFACE TEST	SEE NOTE 10	35	120
								1026003 REV –		1026008 REV –					1	G&N ALARMS & INTERRUPTS TEST	SEE NOTE 10	35	119
								1026002 REV –		1026007 REV –					1	G&N POLARITY TEST	SEE NOTE 10	35	118
								1026001 REV –		1026006 REV –					1	AGC ERASABLE MEM. ZEROING & SELF CHECK	SEE NOTE 10	35	117
										1008268					1	WIRE HARNESS G"	SEE NOTE 9		116
								2018898							1	WIRING HARNESS			115
								1001496 -76							2	SCREW, BUTTON HD. SPLINE SOCKET			114
								1010705 8							1	CLAMP LOOP			113
								1010705 -6							1	CLAMP LOOP			112
								1010705 -5							1	CLAMP LOOP			111
CONFIGURATION DASH NO.	-131	-121	-111	-101	-071	-091	-081	-051	-041	-061	-031	-021	-011	-000	QTY.	NOMENCLATURE OR DESCRIPTION	REMARKS	EQUIP. CODE	FIND NO.
G & N SYSTEMS	124	123	122	121	109	111	110	17	12	20	8	7	6	5					

QTY REQD	

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

DRAWN
CHECKED
APPROVED
APPROVED